

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 13 1957

*A place
in the*

sun

with the knowledge that should sunburn, prickly heat, or insect bites and stings spoil the pleasure, then prompt, soothing and cooling relief may be obtained with 'Anthical' Lotion.

Supplied in containers of 4 fl. oz. (containing 2 per cent mepyramine maleate) . . . retail price 3s. 6d.* plus 8½d. purchase tax Bonus terms of 13 to the dozen are available through wholesalers from 1st May until 28th September.

*subject to usual trade discount.

'ANTHICAL'
trade mark brand
MEPYRAMINE MALEATE/ZINC OXIDE
LOTION

MANUFACTURED BY:
MAY & BAKER LTD



CITRATES

Immediate delivery from stock of Sodium Citrate and Potassium Citrate for pharmaceutical or industrial purposes.

BISMUTH

Bismuth Carbonate B.P., Bismuth Citrate B.P.C., 49 Bismuth Salicylate B.P., Bismuth Subgallate B.P., and Bismuth Subnitrate B.P.C.

MAG. TRISIL.

We manufacture and offer Magnesium Trisilicate B.P. in three densities—standard, light and extra light.

ERGOT

Prepared Ergot B.P.C., Liquid Extract of Ergot B.P.C. and Soft Extract of Ergot; quotations on request.

IRON SALTS

Iron and Quinine Citrate B.P.C., Iron and Ammonium Citrate B.P., Saccharated Iron Carbonate B.P.C. We will be pleased to submit samples.



T. & H. SMITH LTD · BLANDFIELD CHEMICAL WORKS · EDINBURGH II

WARD, CASSENNE
LIMITED

present to the
pharmaceutical
profession:—

FORMULA:

Ammonium chloride
0.3 g.

Reserpine
0.2 mg.

Homatropine methylbromide
0.5 mg.

Caffeine
0.03 g.

QUADRIN
TRADE MARK



In bottles of 50
sugar-coated tablets at 13/6,
trade price 7/6 per bottle,
Purchase Tax 2/3.

Available under N.H.S. prescription

WARD, CASSENNE LTD.,
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WARD, CASSENNE will be telling the medical
profession of this fine new ethical by frequent
mailings of brochures and extensive announcements,
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Orders may be placed with the Sole Distributors:—
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London, E.C.1. and at 139 Bath Street, Glasgow, C.2.
or with your Wholesaler.

BUTYL CHLORAL HYDRATE
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Announcing

the **GROSS** 'Systematic'



★ The only cash register which gives you 3 colour dissection of the printed roll.

- ★ Normal audit strip advantages plus COLOUR DISSECTION.
- ★ Simplified paper loading and controls.
- ★ Many new exclusive features designed to give you more information, greater control and ease of operation.
- ★ The lowest priced cash register in its class.
- ★ A range of different models available from £59 to £148. All models can be guaranteed for TEN YEARS.

THE 'GROSS SYSTEMATIC'

for the first time gives you 3 colour analysis, a fast and easy method for the dissection of sales information. If you would like a fully illustrated leaflet to learn more about this latest model, pin the coupon below to your bill-head or fill in the details and post it to the address shown.

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Please send me full details

CD3

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COMPANY

ADDRESS

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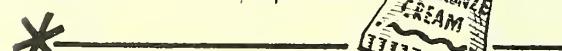


SUNBRONZE * cream

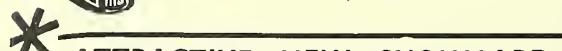
for QUICK & PAINLESS TANNING

The Nurona Sunbronze Cream is a development of the Sun Tan Cream with a vanishing creambase. Excellent as a make-up foundation. Plain and tinted shades available in handy size tubes suitable for pockets or handbag.

13/6 per dozen plus 90% P.T.
Retail at 2/8 per tube.



Also available, the popular
NURONA LIQUID SUN TAN CREAM.
Nurona Sun Tan Cream creates and
maintains a natural sunbronzed
appearance without painful sunburn.
4 oz bottles—13/6 per dozen plus
90% purchase tax.
Retail at 2/8 each.



ATTRACTIVE NEW SHOWCARD BONUS OFFER

Assorted orders for 3 dozen or more qualify for the attractive new showcard and Bonus of one free bottle or tube in each dozen—i.e. 36 bottles or tubes invoiced as 33.

Bonus parcels should be ordered direct, but may be invoiced through your usual wholesaler.

JAMES WOOLLEY, SONS & CO. LTD.
VICTORIA BRIDGE · MANCHESTER 3

'IMPACT' advertising
creating new sales records!

NERVONE

The New Nerve Nutrient

T.V. 'spots' on London and Midlands stations are now adding 'IMPACT' to the hard-selling press, poster and theatre campaign. Are your stocks of 'NERVONE' adequate?

OBtainable from Wholesalers Everywhere

ESTABLISHED 1793

ATKINSON & BARKERS INFANTS' PRESERVATIVE

The Infants' Medicine
of 150 years' standing

For teething and digestive troubles

ROBERT BARKER & SON LTD

13 ALISTAIR STREET MANCHESTER, 1

GOOD PRINTING AND PROGRESS are SYNONYMOUS!

—yes, it is essential
your printing should
be perfect if you
wish to progress
successfully



THE
CORRECT
SERVICE

ALF HARRISON & SONS LTD.

Carton, Medical and Advertising Printers

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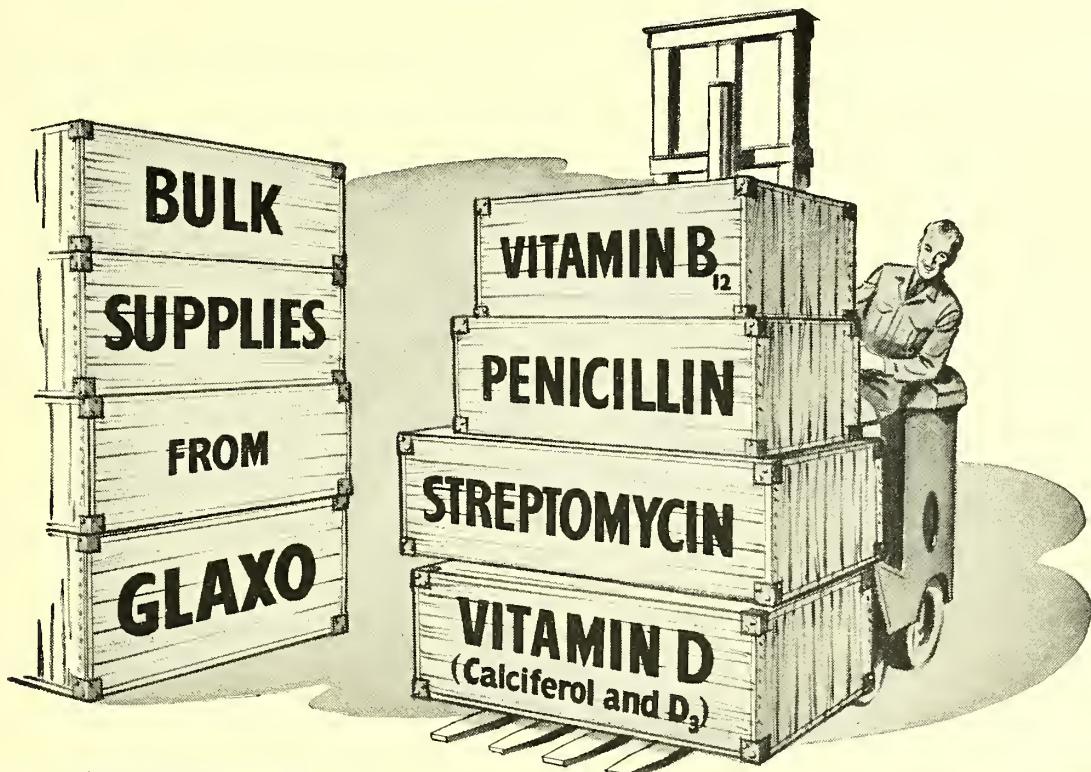
Phone: Leeds 52668/9

Grams: "Ideas," Leeds, 4

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BULK SALES DEPT., GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX BYR 3434



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AN OPPORTUNITY FOR YOU!

NEW AGRICULTURAL FIRST AID ACT

Under the Agriculture (First Aid) Regulations S.I.1957 No. 940 effective as from 1st August 1957 all agricultural holdings in Great Britain must provide certain First Aid requisites for employees. Two sizes of outfit are specified as quoted here.

There will be a big demand for these outfits and we recommend that you order now and display prominently together with a special Farm Outfit showcard we supply with all orders for four or more.

We shall be advertising in the Farming Press directing farmers to chemists.

An explanatory leaflet about the new Act is available and will be sent with all orders so that you can advise farmers on their requirements.

PRICES

A.20 (Box A) for holdings with up to 3 workers
Trade 9/6d. each Retail 13/- each

A.21 (Box B) for holdings with 4 to 10 workers
Trade 14/- each Retail 18/6d. each

SPECIAL SHOWCARD WITH ORDERS OF FOUR
Carriage paid £5 all goods

Cuxson, Gerrard & Co. Ltd.

OLDBURY · BIRMINGHAM

Safer Pethidine

Pethidine **PLUS** 'Lorfan'

A combination of pethidine with the narcotic antagonist levallorphan tartrate in proportions which minimize respiratory depression without affecting analgesia.

The administration of these two drugs in a preformed mixture is an attractive idea which offers the freer use of this analgesic without incurring undue respiratory depression.

Anaesthesia, 1957, 12, 174.

'Lorfan' (levallorphan) does not diminish the analgesic effect of pethidine and clinical observations show that it may enhance the sedation produced by pethidine.

Lancet, 1957, i, 128.

The use of 'Lorfan' to diminish the respiratory depression caused by the narcotic analgesics in childbirth is one of the most valuable potentialities of this antagonist.

Lancet, 1957, i, 213.

Pethidine 100 mg. **plus** 'Lorfan' 1.25 mg. are now combined in 2 c.c. ampoules with the trade mark

'PETHILORFAN'

Available in boxes of 12 and 100.

ROCHE PRODUCTS LIMITED • 15 MANCHESTER SQUARE • LONDON W.I.



SUN TAN OIL

A modern, attractively labelled alternative to our
TAN-GLO SUN TAN CREME
 —for those who prefer an oil

2 oz.
 bottles
 write for full sized
 free sample and price



ARTHUR H. COX & CO., LTD., BRIGHTON

PRIDE ON

TELEVISION

PRIDE HAIR LACQUER

RETAIL 4/3d. REFILLS 2/8d.

PRIDE EGG AND LEMON SHAMPOO

3 LINKED SACHETS	10½d.
24 SHAMPOO DISPENSER	3/9d.

PRIDE SCALP MILK

INJECTOR DISPENSER 3/3d.

THESE FAST-SELLING LINES ARE NOW
 BEING ADVERTISED CONTINUOUSLY IN
 MAGAZINES AND ON TELEVISION.

From your usual wholesaler or direct

B. N. FURMAN, PROD., LTD., Fonthill Rd., London N.4



"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS

SODIUM METABISULPHITE

SODIUM HYPOSULPHITE
 (Crystals and Anhydrous)

SODIUM SULPHITE
 (Crystals and Anhydrous)

EPSOM SALTS B.P.

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PRECIPITATED SULPHUR B.P.

ACCUMULATOR ACID

Enquiries Invited

JOHN RILEY & SONS, LTD

HAPTON, NR BURNLEY

Grams: "Rileys" Hapton

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Now's the time to Stock

LASSIE & CHAPPIE & MEET

3 BEST-SELLING Dog Foods all in one case!



HERE'S PETFOODS

3-ACE DEAL!

Free! 2/- Extra Profit Vouchers for YOU!

**EACH 3-ACE CASE
OF HANDY TINS CONTAINS**

36 - Lassie 18 - Chappie
18 - Meet

PLUS 2/- EXTRA PROFIT VOUCHER

The voucher entitles you to a special 2/- discount when you next order a case of Kit-E-Kat.

Remember — Every 5th customer owns a dog, so make sure you stock these PETFOODS 3-ACE CASES!

Order from your wholesaler or your PETFOODS representative NOW!

NEW! REVOLUTIONARY!

"OWN NAME"⁹⁹ SHAMPOO SACHET SERVICE BY LINCOLN HAIR PRODUCTS LTD



A creamy, well tried,
perfectly blended shampoo

- NEW low minimum quantities
- CHOICE OF FOUR SHAMPOOS
- CHOICE OF 9 PRINTING COLOURS AND BLACK

Here's the wide choice

PINK BOUQUET SHAMPOO · LEMON CREAM SHAMPOO · BLUE PEARL SHAMPOO · WHITE AMBER SHAMPOO

PRINTING COLOURS:

ROYAL BLUE · LOTUS BLUE
GRASS GREEN · SEA GREEN · APPLE GREEN
PLUM RED · PILLAR BOX RED
ORANGE · BLACK · WHITE

YOURS - INDIVIDUALLY

AND THE SERVICE INCLUDES AT NO EXTRA CHARGE:—

- TYPESETTING TO CHOICE OF 3 STANDARD TYPES
- INDIVIDUAL DISPLAY BOXES PER 6 DOZEN
- CARRIAGE PAID—ALL ORDERS
- ALL CONTAINERS FREE

ACTUAL
SIZE



PRICES

QUANTITY	PER GROSS	P.T.	TOTAL COST PER GROSS	TOTAL COST OF ORDER INC. P.T.
2 GROSS	45/-	13/6	58/6	£5 · 17 · 0
4 GROSS	40/-	12/-	52/-	£10 · 8 · 0
7 GROSS	35/-	10/6	45/6	£15 · 18 · 6

LOOK!
MINIMUM ORDER 2 GROSS
£5.17.0 COMPLETE

Special Blocks Prepared and Printing
on both sides at reasonable charges if even
greater individuality is required.

LINCOLN HAIR PRODUCTS LTD

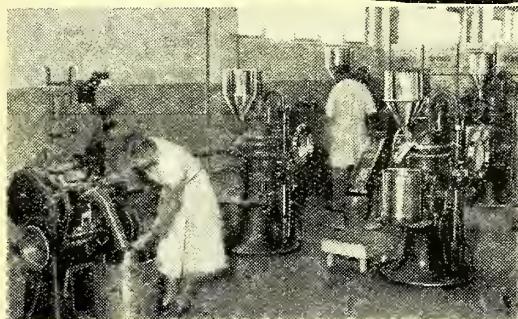
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LONDON, W.3

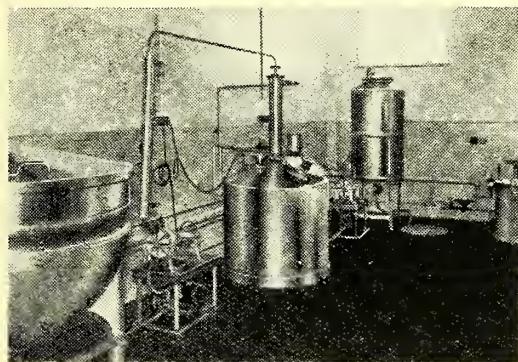
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The answer to your

AUSTRALIAN MANUFACTURING PROBLEMS



A battery of rotary tablet compressors, capacity one million tablets per day. Left: a fully automatic twist-wrapping tablet machine



Section for sterile products, completely dust-free. Highly polished stainless steel steam jacketed pan, heat-exchangers, bacteriological filter presses, mixing and storage containers.



Production line—one of many conveyor-belt packaging lines.

To organise manufacturing facilities in Australia is a big enough job in normal times. To-day, with rigid import licensing and shortages of trained personnel, many manufacturers have, through necessity, shelved any plans of developing existing or new products within the Commonwealth of Australia.

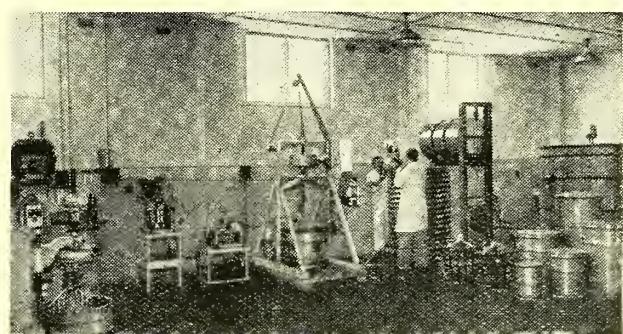
Kingsgrove Laboratories, with 40,000 sq. ft. of modern factory area, equipped with the latest of specialised equipment and experienced and qualified personnel, can relieve you of all the problems associated with the technical and physical work of manufacture.

Production covers a wide range of Pharmaceutical and Toilet preparations, together with an extensive range of packaging finishes. Qualified Pharmacists and Chemists not only supervise production, but maintain strict quality control. Our modern and efficient methods provide our clients with a cost-structure seldom equalled.

All enquiries will receive prompt attention, and formulation details will be treated in strict confidence. References as to our bona fides may be made to the following Companies, for whom we act.

A. Wander Limited.
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Optrex Ltd.
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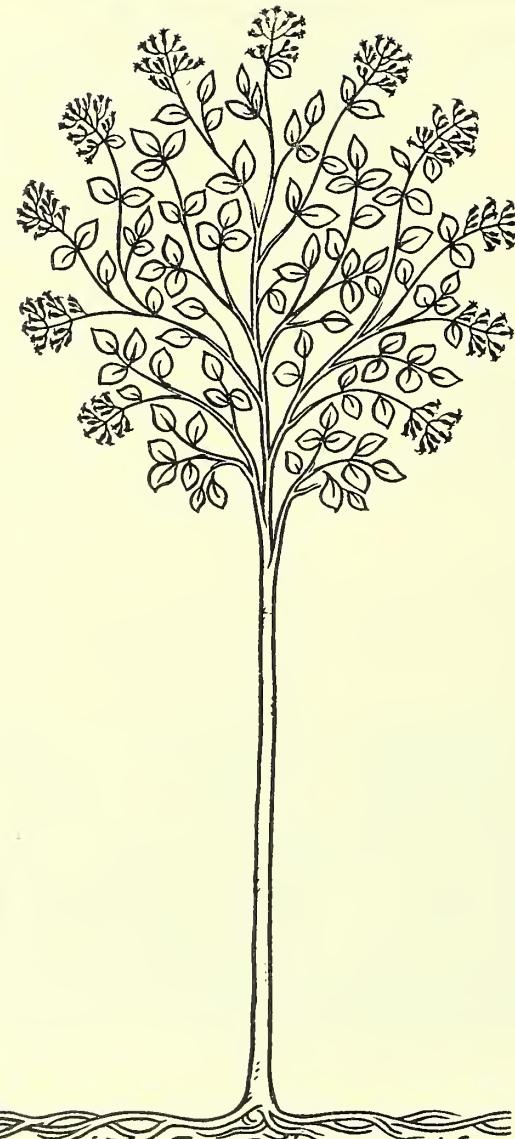
Creams and liquids manufacturing section, employing planetary mixers, steamheated stainless steel mixing pans, colloid mill, filter presses, turbine mixer, etc.

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PTY. LTD.

Forrester Street, Kingsgrove, N.S.W., Australia

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A "TREE OF LIFE" PRODUCT

CARNEGIES CHRY SAROBIN

*Manufactured at our
Garden City Factory
and distributed
to all
world markets*

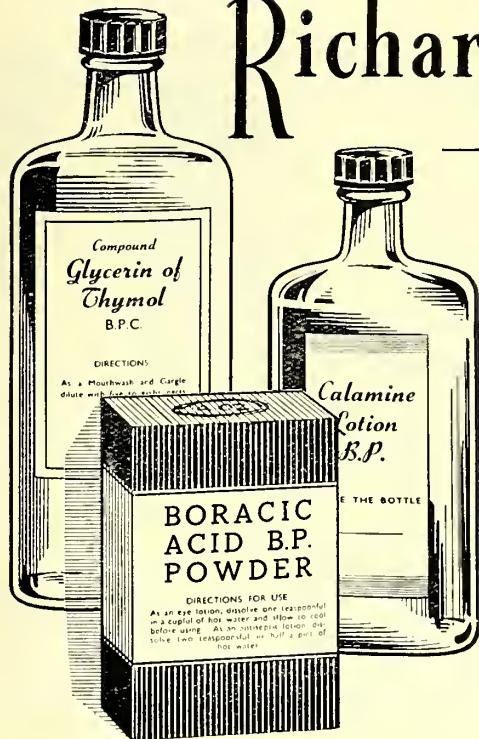
CARNEGIES OF WELWYN LIMITED

Manufacturers of Fine Chemicals WELWYN GARDEN CITY · ENGLAND

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Cables: CARNEGIES, WELWYNGARDENCITY TELEX



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PACKED GOODS

*Attractively labelled
and presented*

PRICE LIST ON APPLICATION

**Mansfield Road
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Also at Ashton-u-Lyne Tel.: 2816 (3 lines)



Enterofagos

POLYVALENT INTESTINAL BACTERIOPHAGE

**The BIOLOGICAL treatment for
most intestinal, para-intestinal,
kidney and bladder infections**

ENTEROFAGOS is one of the series of M.B.L. preparations which enjoy the confidence of the Medical profession in this country and overseas. It is of established therapeutic value in the treatment of infective conditions of the gastro-intestinal tract, kidneys and bladder.

ENTEROFAGOS contains the active bacteriophages against Staphylococci, Streptococci, B. coli, B. Typhosus, B. paratyphosus, B. dysenteriae and Enterococci. It can be given to adults or children without fear of harmful reactions, and this combination of efficacy and safety makes ENTEROFAGOS the ideal treatment for the infective conditions indicated.

The preparation is contained in ampoules to be taken orally according to the instructions supplied.

INDICATIONS

With ENTEROFAGOS most cases of Diarrhoea respond rapidly to treatment. Colitis, Enteritis, Enterocolitis, Typhoid and Paratyphoid Fevers, Bacillary Dysentery, B. Coli Infections, Food Poisoning are equally responsive to its treatment.

MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD
SOUTH NORWOOD
LONDON, S.E.25

Sno-stik



NEW STICK DEODORANT that stops perspiration



NEW AMERICAN FORMULA

Women have been waiting for this—a deodorant stick which gives really *lasting* effectiveness. Made to a new American formula, Sno-Stik acts two ways. Sno-Stik kills odour instantly; it also stops unwanted perspiration which is the cause of the odour. One application gives all day protection.

ADVERTISING

A huge and concentrated advertising campaign, in the five most important women's publications*, will back Sno-Stik sales in June, July and August. Be sure to display the attractive container on your counter. 1957 is going to be a "Sno-Stik" summer!

* **Daily Mirror • Sunday Pictorial**
Daily Sketch • Woman • Woman's Own

TRADE TERMS

22/- per dozen plus 30% Purchase Tax. Usual Trade discounts on direct orders. Retail price 3/-.

Made by E. GRIFFITHS HUGHES LIMITED, makers of Sno-Mist Powder and Liquid

'DELTASTAB'
(Prednisolone)

'HYDROCORTISTAB'
(Hydrocortisone)

'HYDROMYCIN'
(Hydrocortisone with
Neomycin)

'CORTISTAB'
(Cortisone Acetate)

PREDNISONE
BOOTS



All-British Corticosteroids

are manufactured
in Nottingham in the
most up-to-date
plant in Europe.
A comprehensive
range of preparations
is available to
meet all therapeutic
requirements:

NOW-

'Deltastab-B'

Tablets of prednisolone 5 mg.
buffered with aluminium
hydroxide gel and magnesium
trisilicate.

The price of Deltastab-B
is the same as ordinary
prednisolone.

Supplied in bottles of
30, 100 and 500 tablets.

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TEL. NOTTINGHAM 45501 OR 71 FLEET ST., E.C.4. TEL. FLEET ST. 0111



P R E S E N T I N G

For **SUB-ACUTE** and **Chronic** dermatoses
TAR+HYDROCORTISONE combined
in TARCORTIN CREAM have
pronounced advantages over either
medicament alone.



TARCORTIN

The established germicidal, stimulating and anti-pruritic properties of tar, in the treatment of sub-acute and refractory skin affections, can now be considerably enhanced by its incorporation with hydrocortisone. Clinical trials have shown that the two medicaments together exert a powerful synergistic action that is far more rapid, more pronounced and complete than the action of either alone. These two valuable therapeutic agents are presented in a non-greasy, stainless, hydrophilic cream, known as TARCORTIN.

TARCORTIN CREAM

is supplied in 7 grm. and 15 grm. tubes, containing 0.5% Hydrocortisone in a special coal-tar extract.

*7 grm. 9/- plus 1/10d. pur. tax.
15 grm. 18/- plus 3/7½d. pur. tax.
Prescribable under EC.10.*

**★ LITERATURE
AVAILABLE ON
REQUEST**

**STAFFORD - MILLER LIMITED
HATFIELD • HERTS**

Manufacturing Chemists

By arrangement with Reed & Carnick, Jersey City, U.S.A. (Est. 1860)

Distributors: FASSETT & JOHNSON LTD., 86 Clerkenwell Road, London, E.C.1

**BIG**

Boost for your Electric Shaver Sales!

Here's the ideal electric shaver at the ideal price. A real high-precision rotary dry shaver with the man-size blades, real blades, in a special domed foil-head with large shaving area. Run an eye over the sales points. Note the Electromatic motor . . . the matched head and foil . . . 3-direction slots and perforated pattern . . . the full guarantee . . . the attractive price. Remember too, the DISTLER will also sell as an office and travelling spare to thousands already using electric razors.

BIG

Space Advertising in National Press. Full Colour Counter and Window Material. Full-scale Servicing Organisation. Big Turnover . . . Handsome Profits.

BIG

Shaving Surface, domed for comfort. Powered by 3 standard 1½-volt torch cells. Special quiet action Electromatic motor, designed for long life. 3-Way slots and perforated pattern in shaving foil shear all hairs, long or short. So easy to clean: twist off and blow; brush when necessary. Fully Guaranteed.

*New Rotary Shaver with
man-sized blades
shaves quicker . . . smoother . . .
ANYWHERE!*



DISTLER
Town n' Country

BATTERY SHAVER

RETAIL PRICE £5. 15. 6. (inc. P. T.)
(Batteries extra)

(Made in Western Germany)



DISTLER LTD., 5 CONDUIT STREET, LONDON, W.1

G

New!

FIELD'S PERFUME STICK



Perfume Sticks are the rage of Paris -

and you'll find Field's a fast-seller in Britain! Here's why:

- Perfume imported from Paris . . . and concentrated in a stick!
- In attractive handbag size cases—modern pastel colours.
- Unspillable! Unbreakable!
- It's just what women want to keep th excitingly fragrant every minute of day — and evening!

SUPPORTED BY A TREMENDOUS

ADVERTISING LAUNCH!

In all the leading women's magazines!



Whole colour pages — and black and white

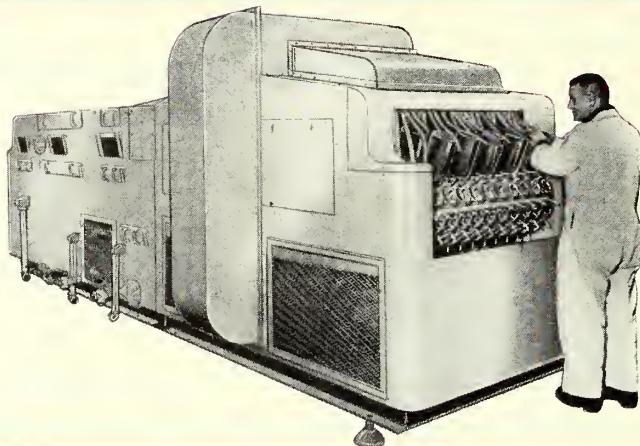
From now until Christmas
Field's advertisements
hit home over
76 million times!

AND ON TV—ALL 4 STATIONS!
with an audience of over 9 million!

Every dozen perfume sticks are packed in these attractive, eye-catching dispensers.

PLEASE ORDER PLENTY OF FIELD'S PERFUME STICKS

what's in a bottle?



Designed specially for Chemists' bottles yet suitable for all trades. Powleys "SPARTAN" Hydro Bottle Washer-Dryers give outputs ranging from 2160 bottles per hour, and take up very small floor space. Whatever has been in your bottles "SPARTAN" washes and dries sparkling clean.

Spartan

HYDRO BOTTLE WASHING & DRYING MACHINES

R. POWLEY & SONS LIMITED, ST. MARK'S ROAD, SUNDERLAND, ENGLAND

Telephone 4846 7

Telegrams and Cables "Powley" Sunderland

The name that guarantees accuracy

- CLINICAL THERMOMETERS
- HOUSEHOLD THERMOMETERS
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ROAD · LONDON · S.W.19

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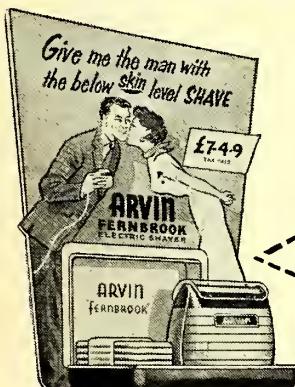
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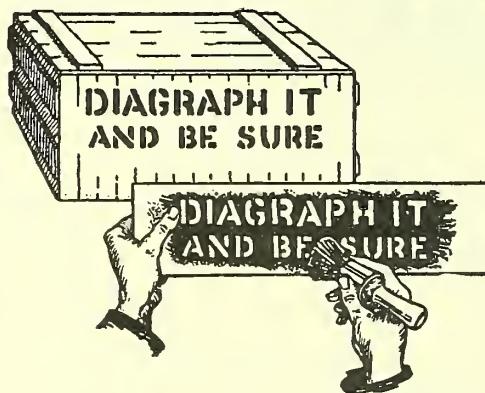


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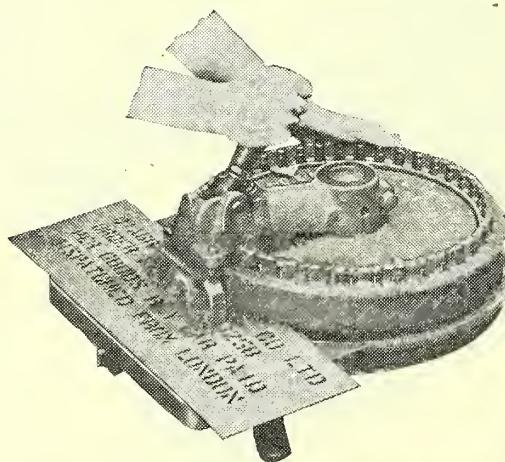
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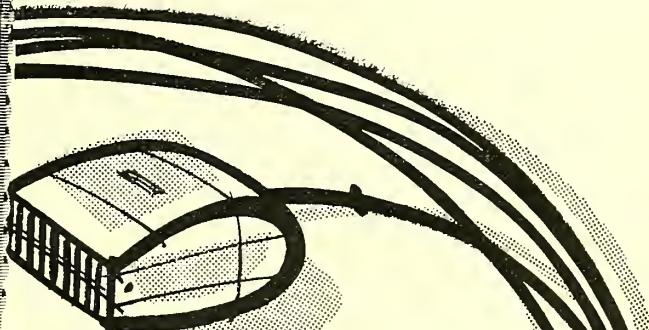
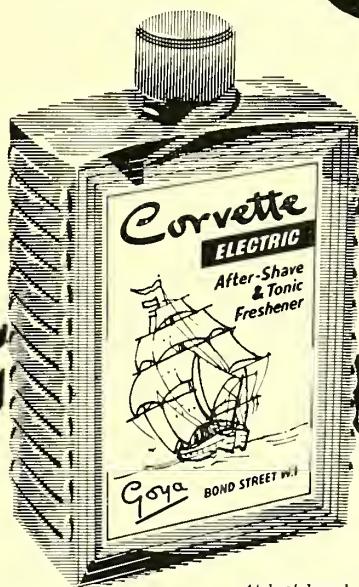


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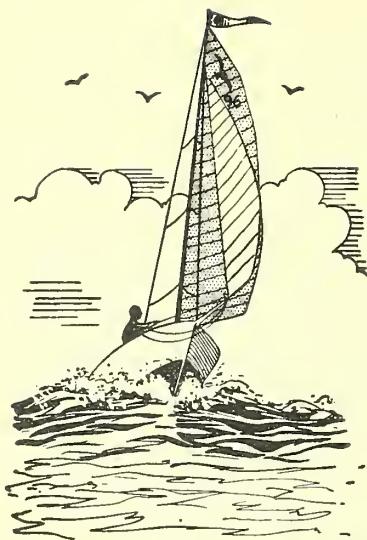


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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 168

July 13, 1957

No. 4038

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The CHEMIST AND DRUGGIST

Volume 168

JULY 13, 1957

No. 4038

Pertussis and Diphtheria

MINISTRY RECOMMENDS VACCINE CHANGES

ON the advice of the Medical Research Council, the Ministry of Health has advised changes in the type of vaccine used for inoculation against whooping cough and diphtheria under the National Health Service Act.

The Council's report to the Ministry stated that "inoculation with certain of the prophylactics used against diphtheria or whooping cough involves some risk of provoking paralysis from poliomyelitis. The risk varies according to the time of year and the type of prophylactic used, being greatest in the second and third quarters of the year and when a combined alum precipitated diphtheria and whooping cough vaccine is used. The risk is less at other times of the year and minimal when an alum free diphtheria toxoid or a plain whooping cough vaccine is used singly." The Ministry therefore recommends to local authorities that the following types of vaccine should be used in future:

Diphtheria prophylactics: F.T. and T.A.F.

Whooping Cough vaccine: A plain pertussis antigen.

Combined antigens: Where an authority considers it expedient to use non alum-containing combined diphtheria and whooping cough antigens special attention should be paid to the prevalence of poliomyelitis in the locality.

Prescribing Costs

COMMITTEE READY FOR EVIDENCE

THE Committee on the Cost of Prescribing (see *C. & D.*, June 22, p. 667) is ready to receive written evidence from persons and organisations interested in its inquiry. The committee's terms of reference are as follows: "Having regard to the increased cost of prescriptions issued in the National Health Service, to investigate the factors contributing to this cost and to make recommendations." Memoranda of evidence should be sent to Mr. E. L. Mayston (secretary of the committee), Ministry of Health, Savile Row, London, W.1.

Toilet Preparations

FIRST STANDARDS FOR RAW MATERIALS

THE first set of specification standards for raw materials used by the toilet preparations industry has been published by the Toilet Preparations Federation, Ltd. The specifications cover white oil, glycerin, borax, boric acid, petroleum jelly, paraffin wax, amorphous wax, precipitated chalk, titanium dioxide, calcium stearate, talc,

propylene glycol, zinc oxide, magnesium carbonate, zinc stearate, magnesium stearate and triethanolamine. A number of special methods are also described. The standards were compiled by a study group under the chairmanship of Lieutenant-Colonel J. K. L. Wenham. The Federation states that its 200 member companies will from now on be buying the eighteen materials listed to the T.P.F. specification. From time to time other specifications will be added and those listed now will be subject to revision. The set of standards is obtainable from the Toilet Preparations Federation, Ltd., 40 Piccadilly, London, W.1, price £2 2s.

Guillebaud Report

DOCTORS' CRITICISMS

CRITICISMS of the Guillebaud Committee's report on the National Health Service are contained in a pamphlet published on July 9 by the Fellowship for Freedom in Medicine. The report is described as "a Blue Book full of

whitewash." The Fellowship says that it would be unfair to condemn the report as wholly devoid of merit. "But it shies away from the two main questions posed in its terms of reference when it virtually refuses to admit the need for substantial economies in the service, and rejects any modification of the main structure which has been so devised that financial responsibility is discouraged, while the public is encouraged to place less reliance on the family doctor than upon the much more expensive hospital." In the view of the Fellowship the price paid for the Health Service was "out of all proportion to the benefits derived from it." It expresses its astonishment that the Committee, in spite of its terms of reference, should have rejected every suggestion made to it for effecting large-scale economies and should have dismissed the possibility of reducing State expenditure with the remark that "any charge that there is widespread extravagance . . . is not borne out by our evidence." The Fellowship comments that no serious criticism of the Service ever imputed extravagance in the sense that money was being spent recklessly. "It is the system itself which, to borrow a phrase of Sir John Maude's, weighs the scales against a reasonable economy." The pamphlet draws attention to a number of detailed suggestions for effecting economies that were made to the Committee by the Fellowship and other witnesses, but re-



PRODUCTION LINE: Students of Chelsea School of Pharmacy busily engaged on the production line demonstrating the preparation of injection of decamethonium iodide. Ampoules were washed, solutions prepared and introduced under a Perspex screen before being sealed and sterilised by autoclaving with their tips immersed in methylene blue as an aid to the detection of imperfect sealing. Final stages of the process, shown to interested visitors at the Ministry of Education stand at a Festival of Women held in London recently, were inspection for foreign particles by means of polarised light, boxing and wrapping in heat-sealed Cellophane.

jected. Among them was an increased charge for prescriptions. The pamphlet notes that the Committee "did not even consider this, but the Government has recently introduced it." Other suggestions were that the Australian method of providing "vital" drugs free and charging for the rest should be introduced; and that there should be the imposition of the payment of a returnable cash deposit on medicine containers. Before considering the report in detail, the Fellowship calls attention to "an important matter of principle which applies to all the nationalised industries and services." The Committee was appointed by the Ministers whose departments were interested parties, and was admittedly deeply indebted to the Ministry official who was its secretary. "The report bears all the marks of having been drafted inside the Ministry of Health. . . . Any proposals submitted in evidence which implied criticism of the Minister or his officials must have tended insensibly to be considered in a defensive spirit rather than with the complete objectivity that was demanded." The pamphlet says that no one would deny the value of many of the modern remedies for serious diseases. But that the nation should spend more than 18s. at the chemist for every £ spent on the doctor bears out the impression that patients put pressure on their doctor, which he finds it difficult to resist, to prescribe pills and bottles of medicine. "In view of the Committee's concern about excessive prescribing it might have occurred to them, in discussing the shilling prescription charge, to consider whether a higher charge would reduce the excessive demand for medicines." The Committee, continues the pamphlet, express themselves as content with the existing Ministry methods of curbing expenditure on drugs—all of which are directed towards the doctors (with fines of up to £400), on the assumption that they tend to over-prescribe.

£25 Penalty Imposed

AN ELASTIC STOCKING WAS WITHHELD

BIRMINGHAM Executive Council is recommending that £25 3s. 3d. should be withheld from the remuneration of a company of chemists and states that it takes a serious view of the company's arranging for their premises to be managed by a member of the staff inexperienced in interpreting National Health Service prescriptions. The breach of terms of service arose when a woman, presenting a prescription for an elastic stocking, decided that she preferred one of a thicker material than that shown her. The manager obtained the doctor's consent for the amending of the prescription but when the customer again called the usual manager was on holiday and his relief refused to supply the stocking because the prescription did not bear the words "two-way-stretch." Despite advice to issue it from the doctor concerned and from an Executive Council official, the relief manager still refused, and the customer went without her stocking for three weeks. The Council suggests that the 3s. 3d. should be for refunding the customer's fares.

Jewish Pharmacy Group

INAUGURAL DINNER

THE inaugural dinner and ball of the Pharmaceutical Group of the Friends of the Hebrew University was held in London recently. Dr. Max Donbrow presided. Two of the honorary vice-presidents, Professor H. Berry and Mr. H. S. Grainger, F.P.S., were present. Mr. Y. Z. Shek (first secretary, Israel Embassy), the guest speaker, gave an account of some of the recent happenings in the Middle East, and expressed his appreciation of the useful work being performed by the Group. Dr. Donbrow reminded the guests of the peculiar position in which Israeli pharmacy found itself—there being very few young pharmacists—and mentioned that this year the first batch of students who had been trained in the School of Pharmacy in Jerusalem would be taking their final examinations. He hoped that more British pharmacists would join the rapidly expanding Group, and he assured members that they would get much satisfaction in helping pharmacy in Israel to establish itself.

Asiatic Influenza

VIRUS LINK WITH 1889 OUTBREAK ?

THERE is a possible link between the new strain of influenza virus, which has been causing widespread epidemics in the Far East, and the virus which caused the 1889 world epidemic, states a recent report from the World Health Organisation. Antibodies against the new virus have been found only in the blood of older people between seventy and eighty years of age. Young people who had the disease in 1889, and thus built up an immunity to it, would now be in that age bracket. Up to 1889 influenza was at a low ebb and was becoming an almost extinct disease. After the outbreak, however, it never declined to its previous low level.

Brain and its Functions

ANGLO-U.S. SYMPOSIUM

AS a preliminary to the first International Congress of Neurological Sciences, Brussels, July 21-27, an Anglo-American symposium and exhibition on "The History and Philosophy of Knowledge of the Brain and its Functions," sponsored by the Wellcome Foundation, Ltd., are being held in London, July 15-17. The exhibition is designed to illustrate the topics of discussion at the symposium. It is situated in the Wellcome Building, Euston Road, London, N.W.1, and is open to the public from noon on July 15 until July 17. The exhibition is being transferred to Brussels on July 18.

"Wrecking the Placebo"

DOCTOR'S CRITICISM OF PHARMACISTS

WRITING on "Medical Etiquette and the Consultant" in the July issue of *The Practitioner*, Dr. C. A. Clarke (physician, United Liverpool Hospitals) comments that "it cannot be too strongly emphasised that chemists must not undermine the doctor's authority." He states: "Two general practitioners, both with degrees in pharmacy, have

told me that all one's efforts on behalf of a patient may be undone at a single stroke when the EC10 prescription form is presented over the counter. The chemist is often asked for his views on the prescription, and remarks such as: 'There is nothing in this which can do you any harm,' may wreck the placebo which has been the finale of a heart-to-heart confidence-restoring talk which has taken a great deal of time. They [pharmacists] should remember that they are quite ignorant of the psychological atmosphere in which the prescription has been given to the patient."

SCOTTISH NEWS

Scottish Executive

ELECTION OF OFFICERS

THE Executive of the Scottish Department of the Pharmaceutical Society unanimously elected Mr. J. B. Grosset, Edinburgh, *Chairman*, and Mr. A. Officer, Glasgow, *Vice-chairman*, at its meeting in Edinburgh, on June 26. MR. W. A. PARK (chairman) referred with regret to the death of Mr. J. B. Coupar (see *C. & D.*, June 22, p. 664). DR. D. McCall (resident secretary) paid tribute to his memory. The chairman called upon Mr. W. T. Elder (chairman of the Conference Local Committee of the British Pharmaceutical Conference, 1955) to present a chairman's chair on behalf of his Committee to the Executive. MR. ELDER said that his committee had found, after settling all liabilities incurred by the Conference, they were left with a surplus, and had unanimously decided that it should be used to give that chair to the Scottish Executive. Committees were appointed as follows:—General purposes, chairman, vice-chairman, Miss Jenkins, Messrs. Gauld, Goodchild, Maconochie and Mair (and Members of Council resident in Scotland, *ex-officio*); nomination of examiners, chairman, vice-chairman, Messrs. Culbert, Drummond, Macfarlane, Park and Thomas; education, chairman, vice-chairman, Messrs. Drummond, Gauld, Macfarlane, Park and Thomas. THE CHAIRMAN said that, from views expressed during the discussion which followed the reading of Mr. C. G. Drummond's paper at the annual meeting on June 12, it was evident that pharmacists outside executive bodies thought that their opinions were being by-passed in educational matters, and that decisions were being taken before they could express their views. The attendance at the meeting had been rather disappointing, and the chairman thought that the resolution of the Edinburgh and South-eastern Scottish Branch that the meeting should be held earlier in the year should again be considered. The resident secretary read a letter from the secretary of the Association of Headmasters of Senior Secondary Schools, in which it was stated that the Association thought it might be inopportune to consider raising the standard of education and examinations. A reply had been sent to that letter saying that, since the regulations had now been approved by the Privy Council, it was not possible for them to be altered until the whole matter was

again under review. It was agreed that the Society's educational policy subcommittee should be sent that letter for their information. Dr. McCall also reported that, in answer to his circular to the Scottish Members of Parliament about jury service and methylated spirit forms (see *C. & D.*, November 3, 1956, p. 481) a number of replies had been received, and some of them had been sufficiently interested in the proposals to make representations to the Secretary of State for Scotland. It was hoped that a Private Member's Bill might be brought in with a view to amending the law with regard to exemption from Jury Service. The chairman reported that the appointments subcommittee had decided to recommend that Dr. G. H. Macmorran should be appointed resident secretary in succession to Dr. McCall, in accordance with the terms of service, as from October 1. The Executive agreed that that recommendation should be sent to the Council. It was agreed to submit to the Council a recommendation "that a representative selection of mortars and drug jars from those now in the possession of the Pharmaceutical Society should be sent to the Scottish Department for exhibition in the Society's House in Edinburgh."

NEWS IN BRIEF

AMONG Gulbenkian Foundation scholarships that have been awarded are two in pharmacy.

A NATIONAL industrial-safety campaign is being held from September 30 to October 5.

CHEMISTS in Southend are being trained as assistant technical reconnaissance officers by Southend Civil Defence Corps.

OFFICERS of the Southampton Branch of the Pharmaceutical Society recently paid a courtesy visit to the mayor of Southampton.

SPEECH day at the Royal Commercial Travellers' Schools, Hatch End, Middlesex, is being held at 2.30 p.m. on July 20.

ONE-THIRD of eligible schoolchildren in north-west Surrey were registered for poliomyelitis vaccination in 1956-57, states the annual report of the divisional medical officer.

DISS, Norfolk, branch of Boots, Ltd., has won a new cup given by the local chamber of trade for the best dressed window during the town's annual carnival week.

THE official opening of the new premises of Geigy Pharmaceutical Co. Ltd., at Wythenshawe, Manchester, was performed by Mr. C. F. Gysin (chairman of the Geigy group of companies in the United Kingdom) on June 27.

OBJECTING "technically" to Birkenhead Corporation's plans to demolish his pharmacy at 130 Price Street, Mr. R. Hodskinson, M.P.S., asked at an inquiry recently for alternative accommodation to be provided on a rental.

THE chairman, secretary, and treasurer of Plymouth Branch of the Pharmaceutical Society (Messrs. L. T. Warn, A. G. M. Madge, and J. P. Fox) recently paid a courtesy call on the lord mayor of Plymouth.

TOPICAL REFLECTIONS

By Xrayser

Three Years

The statement by the Council of the Pharmaceutical Society—by no means premature—giving details of educational policy, clearly indicates that the practising pharmacist is no longer regarded as of great importance in the training of the student (p. 5). Apprenticeship as we know it of old has ceased to be, and the year of practical training becomes something in the nature of a formal concession to tradition. To make the best use of the period, the wise student will fit it in before proceeding to the three years' course. It is some consolation to know that there has been a realisation on the part of those responsible that the present syllabus is overloaded with out-of-date and what is euphemistically described as "less important material." One had suspected that to be so for some time. It appears, from the reference to higher technological education, that the Council has been influenced, if not intimidated, by the developments in that field. I note that the statement says that "while the arguments in favour of a three-year final course need no support from considerations external to pharmacy, Government policy in relation to higher technological education presents features which give added force to them." The fact that the report feels it to be necessary to mention the matter at all seems to be significant. Whatever the reason for the timing of the report, it was essential to have an early statement to dispel the uncertainty to which you referred in a recent editorial.

Tobacco

Not for the first time in our history, the leaf of the tobacco plant is being subjected to close examination for its possible harmful effects. It is recorded that the plant was first imported into Europe about the middle of the sixteenth century by Hernandez de Toledo, who sent it to Spain and Portugal. In the year 1560 the ambassador of Francis II, who resided at the court of Lisbon, took tobacco into France, when it was presented to Catherine de Medici as a plant from the new world possessing extraordinary virtues. The name of the ambassador was Nicot, from whom the word Nicotiana came to us. The famous Dr. Cullen had quite a lot to say on the subject of both smoking and snuffing. "Smoking, when first practised," wrote Cullen, "shows very strongly the narcotic, vomiting, and even purging powers of tobacco and it is very often useful as an Anodyne; but by repetition these effects disappear, or only show themselves when the quantity smoked is beyond what habit had before admitted of; and even in persons much accustomed to it, it may be carried so far as to prove as mortal poison. Smoking has been frequently mentioned as a means of guarding men against contagion. . . . We cannot suppose that tobacco contains an antidote of any contagion, and therefore we cannot allow that it has any special use in this case; but it is very probable that this and other narcotics, by diminishing sensibility, may render men less liable to contagion, and by rendering men less active and anxious, it may render men less liable to fear, which has so often the power of exciting the activity of the contagion. The antiloimic powers of tobacco are therefore on the same footing with those of wine, brandy and opium." Commenting on Cullen's condemnation, a writer of the period said that though there might be some truth in Cullen's remarks, he himself, had known men and women continue the practice of smoking, chewing and snuffing for as long as sixty years without suffering the slightest injury. Thus do men (and women) delude themselves!

Social Occasion

How apt we are to misjudge our fellows! Lord Haden Guest, in a discussion on the National Health Service Contributions Bill in the House of Lords, said that too many people went to see the doctor because they thought of the visit as a social occasion (p. 9). In almost the same breath the speaker referred to a visit he had recently paid to his panel doctor "with a mild complaint." How often we meet that situation in the pharmacy—it is always the other fellow who goes to the doctor needlessly!

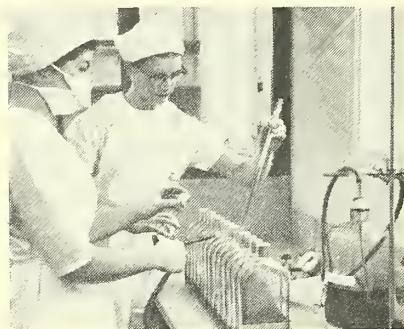
POLIO VACCINE PRODUCTION AT STOKE POGES

"Safety first" is the rigorously applied watchword

ALL the world knows that poliomyelitis vaccine is probably more carefully prepared and tested than any other medicament. But one has to visit laboratories producing the vaccine to realise just what that means in practice. Indeed, so comprehensive is the testing carried out during the manufacture of Polivirin brand poliomyelitis vaccine by Glaxo Laboratories, Ltd., at Stoke Poges, Bucks, that at times the visitor is left wondering whether the laboratories are there for making the vaccine or for testing it!

Difference from Salk Vaccine

Polivirin is a modification of the Salk vaccine, and consists of a mixture of representative strains of the three recognised poliomyelitis types inactivated with formalin. The principal difference from the Salk vaccine is that the virulent type 1 Mahoney strain has been replaced by the less virulent modified Brunhilde (Enders) strain. The other two types in the vaccine are M.E.F.1 and Saukett. The three strains are propagated separately by cultures prepared from monkey-kidney tissue. The kidneys are removed aseptically from healthy rhesus monkeys under general anaesthesia, and minced by repeated scissor cuts. The living kidney cells are grown in a synthetic broth of more than sixty constituents and coloured with phenol red (which explains the amber colour of the final vaccine) for control of pH. The broth initially contains 200 units of penicillin and 100 microgm. of streptomycin to minimise contamination. During the subsequent processing the antibiotics are largely eliminated, though traces may remain in the final vaccine. The tissue cultures which, in 5-litre rectangular bottles, are incubated at 37° C. for several days, are gently agitated on rocking machines



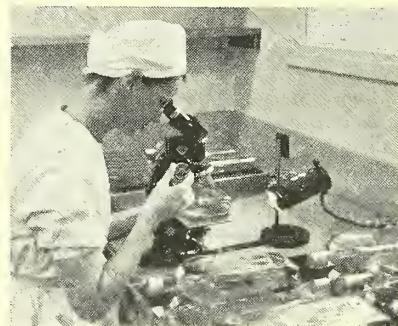
Preparation of cultures for vaccine safety testing. Suspensions of monkey kidney cells in nutrient medium are added to flat Roux-type bottles. The cultures are later examined for cellular degeneration (see illustration in column 2).

to aid respiration. The live virus is added, and after a few more days the virus develops its maximum titre. The virus cultures are tested for bacterial contamination and "wild" viruses, and for potency. The type of virus in the incubator is changed each week under a rotation system, and the cultures are made up into pools of approximately

50-litre volume. After inactivation, the three single-strain vaccines are blended into one "trivalent" vaccine.

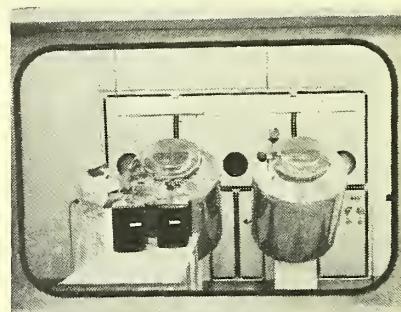
Many of the precautions taken during manufacture are, of course, those that one would expect to find in any aseptic laboratory preparing an injectable product. Thus all the glassware employed in production of the vaccine is, prior to use, washed in a detergent, in demineralised water (the laboratories have their own large demineralising plant) and in distilled water, and finally autoclaved. On the other hand precautions appropriate to the actual or potential presence of dangerous live virus are also in evidence. Thus, for the protection of the staff, all apparatus that has been used in the production of a particular batch is passed through to the washing-up room by way of an autoclave with loading door outside and unloading door inside the room.

While much effort naturally goes into testing to ensure that the finished vaccine is free from live virus, equally as much or more goes into avoiding



Examination of tissue cultures for cellular degeneration.

possible contamination during processing. For example, the inactivation stage, during which the virus in the live vaccine is killed, is performed in three separate rooms over a period of twelve days. In the first room the live vaccine is clarified by filtration through sintered glass, for the presence of foreign matter would hinder inactivation. Formalin is added to a final concentration of 1:4,000, and after three days' incubation the partially inactivated vaccine is pumped through a pipe into the next room, the pipe itself being capable of being sterilised by an electric heating element. Glass apparatus that has been in contact with the fully active virus is thus segregated in the first room, and risk of contamination is correspondingly reduced. The vaccine is again pumped from room 2 to room 3 for the final stage of inactivation. Moreover the buildings in which the live vaccine is made and inactivated are quite separate from the building in which the final blending of the three vaccines into one is performed. The blending room itself is completely sealed off, entry to it being gained only by way of a shower bath for the operatives, an autoclave for the apparatus, and the self-sterilisable pipe in the wall for the vaccine. The vaccine,



Transfer of single strain vaccine pools to tanks to form final trivalent vaccine. The procedure is carried out under strictest aseptic conditions. The photograph was taken from outside the room through a sealed glass window.

no matter from which of the three strains it is derived, is pumped out of 20-litre bottles brought from the inactivation suite, through the pipe already mentioned, which is fitted with stainless-steel covers, and into similar bottles on the other side of the wall.

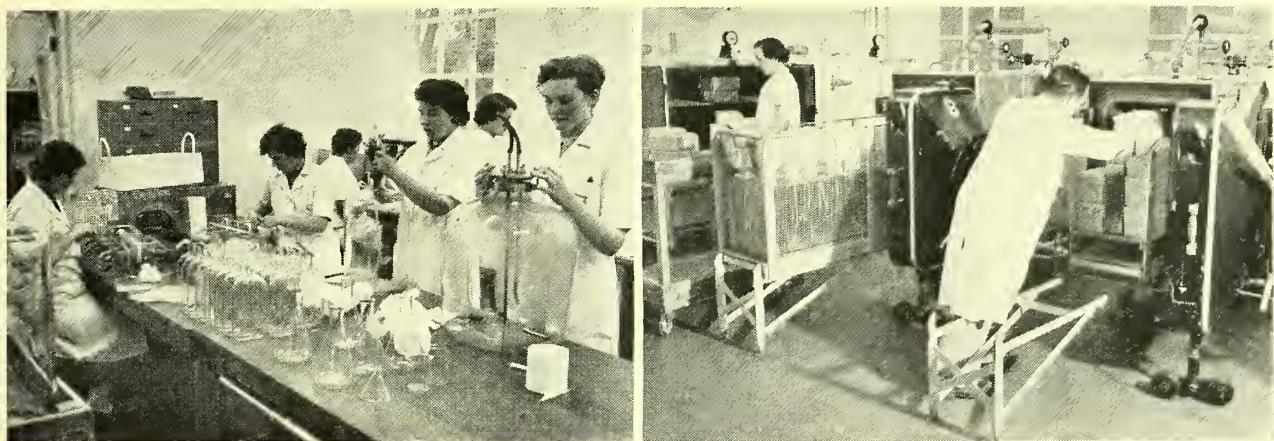
Those bottles are in turn transferred in equal volumes of single-strain vaccine into 450-litre-capacity stainless-steel vessels, the blending being achieved by rotation of the vessels for two hours, for which purpose they are fitted with internal vanes. The vessels are automatically sterilised and cooled before the vaccine is added, and the formaldehyde in the mixed vaccine is neutralised with bisulphite, adjusted for pH, and preservative added. The product is emptied into 100-litre vessels which, after testing, are dispatched to the company's Greenford laboratories for ampouling and final packaging.

Testing for Live Virus

Perhaps enough has been said to indicate the kind of manufacturing precautions that are enforced at Sefton Park. Control measures may now be briefly discussed. As has already been said, testing of the vaccine is a considerable part of the work. Apart from normal sterility and potency tests, the main concern is that the vaccine in its finished form shall be free from live virus. To ensure the absence of live virus two kinds of test are performed: one employing monkey kidney tissue and the other using live monkeys.



A culture bottle being prepared ready for inoculation of poliomyelitis virus.



Left, the important first stage. Cleansing of glassware to be used in poliomyelitis vaccine production. Later the glassware and equipment are loaded into autoclaves for sterilisation (right).

In the first test, cultures are prepared by adding suspensions of the monkey-kidney cells in nutrient medium to flat Röoux-type bottles. The cells grow out into a continuous sheet on one side of the bottle. When the sheet has developed, large samples of the vaccine are added to a series of cultures. Those cultures, and their first, second and third generations are observed microscopically for twenty-eight days. Any live virus present in the vaccine would multiply in the cellular culture, destroying the cells, whose evidence would be seen under the microscope. In the second test, live monkeys are injected with the vaccine and killed, and the spinal cord and brain removed and examined his-

tologically for signs of damage. Apart from the safety tests on the blended vaccine, samples of the single-strain vaccines are taken prior to blending, the batch being held at 4° C. until the results are known.

All the tests on the vaccine are duplicated simultaneously at the National Institute for Medical Research. About 5 per cent. of the total volume produced is used in testing. Each batch of vaccine carries with it a 2-in.-thick foolscap dossier summary of the tests carried out on it. Samples of the batches so far made are still retained at -17° C. in case of later queries.

There is a separate animal house, which maintains a stock of healthy

monkeys for kidney production, as well as monkeys, guinea-pigs and rabbits for testing purposes.

At a Press visit to the £250,000 Sefton Park laboratory suite on June 18, Dr. W. Wood, who is in charge of them, paid a tribute to the foresight of Sir Harry Jephcott (chairman of the company) in building the unit in 1954 "before there had been any clear demonstration of the vaccine's effectiveness." Already a building scheme to permit a 50 per cent. expansion of production at Sefton Park is under way. Dr. Wood, while at Toronto University, was a member of a team that co-operated with Dr. Jonas E. Salk in producing the original Salk vaccine.

FAIR TRADE INQUIRY RESULT

Pharmacy in Republic of Ireland vindicated

PHARMACISTS in the Republic of Ireland are pleased with the decision of the Minister for Industry and Commerce not to make an Order enforcing the recommendations of the Fair Trade Commission, following its investigation into trade conditions in pharmacy. The Minister's decision is regarded in the profession as a complete vindication of the case put forward by the Pharmaceutical Society of Ireland and the Irish Drug Association at the public hearings two years ago.

I.D.A. President's Comment

Mr. F. J. Robinson, M.C.P.S.I. (president of the Irish Drug Association) asked to comment on the announcement said: "The Fair Trade Commission Report dealing with conditions relating to the supply and distribution of medicines, baby foods, and toilet preparations has now been published almost two and a half years after the commencement of the inquiry, which opened on November 15, 1954. I welcome the Report which clears the air of mysticism for not only the trade, but the whole community. I personally welcome this Report for removing such mystery and romance about pharmacy, with its myth about chemists' profits. The Commission thoroughly examined the conditions in wholesale and retail pharmacy. As a result of their investigation chemists

are completely vindicated, and the Report proves conclusively that chemists have done nothing wrong, or against the public interest." Mr. Robinson said that the Minister, speaking in the Dail on July 2, stated that the investigation did not disclose a situation which required the making of an Order. The position, therefore, is that after this very long hearing the Irish Drug Association may issue price lists to manufacturers who confine their preparations to chemists, etc. The findings, broadly speaking, seem to come under three headings:—(1) Confining medicines, etc., to qualified chemists; (2) price and margin fixing; (3) resale price maintenance. Regarding No. 1 the Commission suggests that there is a need to confine medicines other than poisons to qualified chemists because of the nature and composition of many modern medicines. On price and margin fixing, the Commission recommend more or less a *status quo* position. Manufacturers are now free to enforce resale price maintenance for chemists' lines, and it is to be hoped that pharmacists' good friends in the trade will face the fact that it is not illegal to withhold supplies from persons who cut the fixed selling prices.

"Not Guilty"

In effect, Mr. Robinson added, the Minister had found the chemists "not

guilty" on all counts. A specially summoned meeting of the I.D.A. Committee would consider the Report, and a general meeting of members would be held at a later date.

Official Announcement

The Official announcement on the Report from the Department of Industry and Commerce says: "Having considered the Report, the Minister is of opinion that an Order on the lines suggested in the Report would not entail any marked alteration in the manner in which the trade is at present conducted. Accordingly the Minister does not propose to make an Order. He wishes to emphasise, however, that this decision on his part is not to be taken as signifying approval of any practice the prohibition of which is recommended by the Commission, or as in any way limiting the Commission's statutory power to keep the position in the trade under review, and to make Fair Trading Rules or hold another public inquiry about the supply and distribution of the goods concerned if, in the opinion of the Commission, efforts to intensify restrictions or other circumstances at any time so warrant."

In its Report, the Fair Trade Commission recommended that the Minister should make an Order prohibiting certain practices in relation to the supply

and distribution of the goods concerned. It recommended *inter alia*:

(a) About the confining of goods to chemists' shops, that a trade association should be prohibited from directing or coercing its members not to purchase from a supplier, or from directing or coercing its members to accord less favourable treatment to the goods of a supplier than that accorded to the goods of another supplier; but that a retail association should be permitted to circulate to its members, lists of products which are confined to retail chemists or of suppliers who have agreed to confine their products in that way, and that the association should be free to ask (but not to direct) its members to support such suppliers. Also, an individual manufacturer should be free to confine the sale of his products to chemists if he so wishes.

(b) That individual manufacturers should be permitted to enforce minimum prices for proprietary medical preparations but that collective action for the enforcement of such prices should be prohibited. In the case of toilet preparations and infant foods, the enforcement of resale price maintenance, whether by individual suppliers or collectively by associations, etc., should be prohibited (with provision for exemption from the prohibition of particular luxury products where the Commission so deem fit). It was also recommended that a retail association should be allowed to circulate price lists to its members embodying prices fixed for medical preparations by individual manufacturers and, in the case of other products, prices suggested by manufacturers or, where the manufacturer does not do so, by the association, on the understanding, however, that no efforts would be made to enforce the suggested prices as minimum prices. It was also recommended that the recording by code of prices of prescriptions by chemists should be prohibited.

Conclusions and Recommendations

In the course of its conclusions and recommendations, the Fair Trade Commission's Report says: "Chemists provide a service which is vital from the standpoint of public health. For that reason, considerations such as the convenience of locations of chemist shops, particularly outside the principal cities and towns, are of special relevance. Sales of dispensed goods represent about 10 per cent. of total sales. Because of the considerable growth in recent years in the manufacture of ethical preparations which are prescribed as such by doctors, the proportion of prescriptions dispensed which are compounded by the retail chemist has declined. That development does not mean that there is less need for the professional knowledge of the chemist which he requires increasingly in order to keep himself informed of the technical properties of new products and to give advice regarding their use. It does, however, indicate some shift of functions, the full implications of which extend beyond the scope of this report.

The variety of products sold by chemists is exceptional. Largely for that reason, the Report continues, the function discharged by the wholesale

chemist is of particular significance. The larger wholesaler carries a very wide selection of medical preparations, channelling those to the retail chemist by means of deliveries of exceptional frequency. It might appear from the frequent deliveries of small quantities, particularly in the Dublin area, that the wholesaler carries a portion of what would be a retailers' stock in other trades. Yet the average retail chemist carries a wide variety of stock which is substantial in relation to the annual cost of goods sold. That situation arises because of the variety of existing medical preparations and the number of new preparations continually coming on the market. If the individual chemist were to carry substantial stocks of all preparations, however small and infrequent the prospective demand for them, he would need additional working capital for stocks and would face increased risks of obsolescence of stock and of loss of the efficacy of certain preparations. The wholesaler reduces, though he does not eliminate, such risks by carrying a stock of goods for supply at short notice to a large number of retail outlets. The provision of such services entails the employment of substantial capital in wholesaling. It is not within the ambit of this Report to say whether or not there is scope for the reduction of distribution costs, for example through rationalisation of deliveries, but it is clearly important that adequate stocks should be maintained at all levels of trading and that supplies should flow smoothly and economically from the manufacturer to retailers."

Then comes the following important admission in the Report:—

"Notwithstanding the high gross profit margins normally obtained by retail chemists in comparison with those of traders who in respect of certain goods are, or might be, in competition with them, the net profits earned on the average are moderate having regard to the chemist's professional training. That position largely reflects the slow rate of stock turnover and the low average sales per shop.

Confining Goods to Chemists

The policy of the I.D.A. of seeking to have the distribution of a wide range of goods confined to chemist shops is complementary to their efforts to obtain from suppliers a margin of 33½ per cent. on selling prices and to have that margin established as normal in the trade. In that connection, it will be appreciated that about half of total sales by chemists consists of goods other than medical preparations and that a high proportion of those, as well as some medical preparations, are sold in shops where the average gross profit margin on total turnover is less than in chemist shops. It might be said that the chemist's business is *sui generis* because certain characteristics which are unique combine with others which, while by no means unique, are exceptional in their impact on the business."

In the section dealing with "confining of goods" this appears: "It was stated that certain medical preparations, while not scheduled poisons, might produce dangerous side effects if taken without expert advice. It may be accepted that the sale of preparations

of that kind outside the chemist trade could be undesirable from the standpoint of public health. While the confining of medical preparations exclusively to chemists would influence a manufacturer of medical preparations also supplying infant foods and toilet preparations to confine those latter goods to chemists, the policy of the I.D.A. does not appear to have been effective as far as the bulk of toilet preparations are concerned; many of the principal manufacturers of those goods do not confine distribution to chemists. . . . It has been customary in the supply of certain toilet preparations for the manufacturer to confine distribution of a range of products, including cosmetics and perfumes, to selected outlets such as beauty parlours, perfumery departments of large stores and certain chemists. There were no submissions that that practice was unfair or unreasonable and the Commission see no overriding objections to it in view of the importance of prestige considerations in the distribution of such goods."

Under the heading "fixing and maintenance of prices" the Report observed: "Of the goods supplied by chemists medical preparations may be said to be in a special category. In respect of a high proportion of them the professional skill and advice of the chemist are essential to the consumer purchasing them. It is in the public interest that they should be readily available without a deterioration in quality which might involve a risk for the user. . . . In those exceptional circumstances, the Commission consider that resale price maintenance by the individual manufacturer should be permitted in respect of proprietary medical preparations and that, acting solely on his own initiative, he should be permitted to withhold supplies, if that course is necessary, for the purpose of maintaining wholesale and retail prices for his medical proprietaries."

Later the Report said: "The Commission recommend that minimum resale price maintenance in respect of toilet preparations and infant foods should be abolished, but that, on the application of the manufacturer concerned, the Commission should be empowered to allow an exemption from the prohibition on resale price maintenance in respect of a product which is, in their opinion, a luxury product and is being adversely affected by that prohibition."

Coding of Prescriptions

On the question of the coding of prescriptions the Report says: "The Commission consider further that the coding of prescriptions to show the price charged by one chemist as a guide to other chemists is unnecessary in view of the detailed information on prices available to chemists and is undesirable in that, by promoting uniformity of prices, it may induce a chemist to charge a higher price than he might otherwise charge. Accordingly, the Commission recommend that that practice should be prohibited."

INFORMATION WANTED

The Editor would appreciate information about supplies of the following:

Dr. Inns gout pills. GERMEX eye ointment.

LEGAL REPORTS

Drugs on Forged Prescriptions

AT Liverpool magistrates' court, recently, the deputy stipendiary put on probation for two years Mrs. Elizabeth McEvoy, Liverpool, who pleaded guilty to two charges of obtaining tablets on forged National Health Service prescriptions.

Exposure to Dermatitis Risk

IN a judgment given at Liverpool Assizes on June 13, Mr. Justice Paull said that manufacturers should take reasonable steps to see that girls exposed to the risk of dermatitis knew the precautions to be taken to avoid it, and that they used a barrier cream to prevent the condition. He awarded £175 damages to a girl who had sued her employers, Mobil Oil Co., Ltd., for negligence after she had contracted dermatitis in the course of her work. The defendants were granted a stay of execution for twenty-eight days.

Invalid-car Driver Comatose

AT Ipswich magistrates' court recently, Reginald R. Cutting was found guilty of being in charge of a motorised invalid carriage while under the influence of a drug (he was stated to have taken a dose of insulin that caused him to go into a coma) but was granted an absolute discharge. Defending solicitor said that the case was vital from the point of view of diabetics who drive. Cutting told a policeman who found him at the wheel of his carriage at the entrance to his garage that if he had felt any symptoms of a "turn" coming on he would have taken a lump of sugar he always carried around with him.

Rating Cuts on Appeal

SOMERSET Valuation Panel at Taunton on June 18, heard rating appeals in respect of premises occupied by Gregory & Wrenn, chemists, 15 East Street, and W. H. Maunder & Son, chemists, 47 North Street. The East Street shop, it was stated, could not have a modernised front as its present façade (with wooden classical pillars) was scheduled as of historical interest and not to be altered without special permission; another legal encumbrance was that car-parking outside the premises was prohibited. The shop was one of eight pharmacies in the main part of the town, and appeared to have been assessed considerably higher than others with comparable premises. The district valuer said that, if the shop had had a modern front his valuation would have been higher; he assured the Panel that his basis was arrived at after careful consideration of the rents in Taunton over a period of years. Nevertheless the Panel reduced the assessment from £550 to £530. In respect of Messrs. Maunders' premises, which claimed to merit an allowance because they stood "in the midst of three banks and a public house," the Panel authorised a reduction from £665 gross to £620.

Contract Not Established

IN the Queen's Bench Division of the High Court, London, on July 1, a claim by two Israeli businessmen for £4,383 damages against Northam Warren, Ltd.,

Stamford House, Bath Road, Slough, Bucks, was dismissed. The plaintiffs (Messrs. Samuel Rabney and Samson Hofstatter) alleged that Northam Warren, Ltd., had failed to deliver raw materials, bottles and containers for Cutex and Odo-Ro-No products. Defendants denied breach of contract and claimed that negotiations for the sale of the goods had never reached the stage of a concluded contract. In his judgment, Mr. Justice McNair said that plaintiffs had failed in their evidence to establish the contract on which they sued, and must therefore fail. Any contract between defendants and plaintiffs would have to be approved by the American Corporation, of which defendants were a wholly-owned subsidiary, and that approval had never been given. Plaintiffs' claim for damages for loss of profit did not take into account wastage of material, royalties, advertising and discounts.

Theft Charge Dismissed

AT Kingston-on-Thames, Surrey, magistrates' court on June 17, William Edwards, M.P.S., Fulham High Street, London, S.W.6, was found not guilty of stealing razor blades, a bottle of bay rum, three bottles of lotion, a bottle of tablets and other articles, together worth £2 2s. 5d., from his employers, Regal Pharmacy, Ltd., Station Parade, Kingston. Mr. Edwards, who was acting as locum tenens at the pharmacy, was stopped by detectives as he left the shop after closing it on May 23. He had with him a dispatch case which, when opened at the request of the officers, was found to contain the articles alleged to have been stolen from the shop. Mrs. C. M. Illsley, a director of the company, told the court that Mr. Edwards had started work at one of her shops on May 20 at a salary of £21 a week. Three days later an assistant reported an incident to her and the police were informed. She had not given Mr. Edwards permission to take any of the articles found in the case when he was arrested. Answering defending counsel, Mrs. Illsley said she knew that Mr. Edwards had formerly owned his own pharmacy, and was "well known in the trade" as a locum tenens. He had been employed two or three times at her other shops, but had never bought anything from them. A detective-sergeant said that when Mr. Edwards was stopped on leaving the shop he said he had some toilet articles which he was taking home. Asked whether he had paid for them, he replied: "No, I have not been paid for my services." He added that it was his privilege as a manager to take items and pay for them at the end of the week. He was going home to Wales at the week-end and wanted to pack the articles beforehand. When charged with stealing, he said: "Certainly not. What I have done today, I have done dozens of times before as a manager. I am never expected to pay at the time." Defending counsel submitted that Mr. Edwards was in a position to take goods of much greater value than the handful of items in question, if he so wished. He suggested that there was no case to answer. The magistrates dismissed the case and made no order as to costs.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office
POLSA, LTD. (P.C.)—Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2.

ROBERT BURNS (CHEMISTS), LTD. (P.C.)—Capital £2,500. To acquire the business of a chemist formerly carried on at 106 Carlegate Bridge, Retford, etc. Directors: Robert P. A. Burns, M.P.S., and Elsie Trueman.

CHASEVILLE (CHEMISTS), LTD. (P.C.)—Capital £1,000. To carry on the business of chemists, etc. Directors: Bertha Stern and Alan J. Stern, M.P.S. R.O.: 5 Chaseville Parade, Chaseville Park Road, London, N.21.

HOUSLEY (CHEMISTS), LTD. (P.C.)—Capital £4,000. To carry on the business of chemists and druggists, opticians, etc. Directors: Elsie Housley and David S. Housley, M.P.S. R.O.: 39 Sitwell Street, Spondon, Derby.

COR-LESS, LTD. (P.C.)—Capital £100. To carry on the business of manufacturing chemists, chemists and druggists, etc. Directors: Solomon H. Isaacson, M.P.S., and Laura H. Isaacson. R.O.: 24 Sir Thomas Street, Liverpool.

RHINS DRUG CO. LTD. (P.C.)—Registered in Edinburgh. Capital £2,000. To carry on the business of chemists and druggists, etc. Directors: D. I. MacAllister and F. MacAllister, Broadstone House, Stranraer.

MILLS & SMITH (CHEMISTS), LTD. (P.C.)—Capital £10,000. To carry on the business of wholesale or retail chemists, etc. Directors: Eric Gordon Smith, M.P.S., and Gladys M. Smith. R.O.: 127 Gipsy Hill, Upper Norwood, London, S.E.19.

WHITMORE PHARMACIES, LTD. (P.C.)—Capital £1,500. To carry on the business of pharmacists, opticians, etc. Directors: John L. V. Kwaysser, Raymond F. Sanders and Anthony J. Barnes, M.P.S. R.O.: 19 Much Park Street, Coventry.

W. E. GILES & SONS, LTD. (P.C.)—Capital £30,000. To carry on the business of chemists, etc. Directors: Christopher Constance Giles, M.P.S., 110 Commercial Road, Newport, Mon., and Egbert Constance Giles, M.P.S.

COCKING'S CHEMISTS (KENSINGTON), LTD. (P.C.)—Capital £100. To carry on the business of chemists and druggists, etc. Directors: Kenneth E. Robinson, M.P.S., and Helen M. Robinson. R.O.: 4 St. George Street, Hanover Square, London, W.1.

M. HENDERSON, LTD. (P.C.)—Capital £250. To carry on the business of manufacturers of and dealers in cosmetics, creams, soaps, perfumes, etc. Directors: Maria Henderson and Jakob Nassau, both of Tan Llan, Llanelltyd, Dolgellau, N. Wales.

E. MIGNANO, LTD. (P.C.)—Capital £5,000. To carry on the business of wholesale, retail and manufacturing chemists' sundriesmen and warehousemen, and dispensing chemists, etc. Director: Edward Mignano. R.O.: 2 Clunbury Street, Cherbury Street, London, N.1.

Company News

Last year's figures in parentheses.

H. TILLNER, LTD., Reading.—Messrs. A. E. Axtell, M.P.S., and E. F. Woolford, M.P.S., have been co-opted to the board.

BRITISH OXYGEN CHEMICALS, LTD.—Mr. Leslie G. D. Sheldrake, B.Sc., A.M.I.Chem.E., A.R.I.C., has been appointed works director, and Mr. J. M. Williams, B.A., sales director, from July 1.

W. J. BUSH & CO., LTD.—Final dividend on Ordinary and "A" Ordinary 13½ per cent. makes 16 per cent. for 1956 (15 per cent.). Consolidated profit on trading, including profit on sales of fixed assets £18,791 (£14,232), was £680,479 (£707,920) and consolidated net profit £243,777 (£247,525) after tax £251,843 (£281,288). Deduct minority interests £773 (£2,186) and profits retained by subsidiaries £93,032 (£123,150). Net profit dealt with in accounts of parent £149,972 (£122,189).

BUSINESS CHANGES

CHASEVILLE (CHEMISTS), LTD., are opening a pharmacy at Chaseville Park, Winchmore Hill, London, N.21 (telephone: Laburnum 7428) on July 15.

Appointments

ISOTOPE DEVELOPMENTS, LTD., Aldermaston Wharf, Reading, have appointed Mr. E. W. Jones, B.Sc., their sales manager.

MORNY, LTD., have appointed Mr. W. H. Lilley, 13 Downshire Road, Belfast (telephone: 41381) their agent/representative for Northern Ireland. As in the past, the company's products will be distributed by the following wholesalers: T. McMullan & Co., Ltd., Victoria Street, Belfast, and R. J. Groves & Son, 54 Great Victoria Street, Belfast.

PERSONALITIES

MR. F. G. DAVIS, M.P.S. (managing director, Davis & Davis (Malden), Ltd., 78 Malden Road, New Malden, Surrey), has been installed as president of Malden rotary club.

MR. S. G. MORRIS, M.P.S., manager of the Sherborne branch of Boots, Ltd., since it was opened in 1924, is retiring after having completed forty-five years' service with the company.

MR. PHILLIP JAMES WRIGHT, M.P.S., who has been appointed pharmaceutical production manager, at the Crawley factory of Vitamins, Ltd., studied at the School of Pharmacy, London University, and holds a degree in Pharmaceuticals and Pharmacology. Before joining Messrs. Vitamins he was

for three years in a private retail pharmacy and during his call-up period with the R.A.F. was engaged on biochemistry research

work for the Ministry of Supply, at Porton, Wilts.

BIRTH

MATTHEWS.—At Purley War Memorial Hospital, on July 2, to Barbara, wife of Mr. H. D. R. Matthews, M.P.S. (National Pharmaceutical Union), 50 Briton Hill Road, Sandstead, Surrey, a son, Michael John Dennis.

DEATHS

BAKER.—On July 3, Mr. George Rowland Baker, M.P.S., 30 Gloucester Road North, Bristol, 7, aged sixty-eight. Mr. Baker had retired only two days before his death. He had been ill for two years. His daughter, Miss Sylvia Baker, M.P.S., has been conducting the business. He is survived by his widow.

BROOKE-KELLY.—On July 4, Mr. Patrick Brooke-Kelly, M.P.S.I., 21 Rafter Street, Enniscorthy, co. Wexford. Mr. Brooke-Kelly for many years took a prominent part in Irish pharmaceutical affairs. He qualified as a licentiate of the Pharmaceutical Society of Ireland in 1904 and had considerable experience in pharmacy both in England, and on the Riviera at Nice before opening his own pharmacy in Enniscorthy. He served for many years on the Council of the Society and was elected president in 1931, an office which he filled for two years with marked ability. A conscientious and able councillor he also gave valuable service on several of the Council committees. Outside pharmacy Mr. Brooke-Kelly was a man of wide cultural interests, and was particularly interested in literature and music. He was fond of travel and was an accomplished linguist as a result of his experience abroad as a young pharmacist. The interment took place to St. Mary's Cemetery following Requiem Office and High Mass at the Cathedral, Enniscorthy.

HAY.—On June 21, Mr. William Ernest Atkinson Hay, M.P.S., 15 Richard Avenue, Sunderland, co. Durham, aged fifty-four. Mr. Hay was in the business at 197 Hylton Road West, Sunderland, which was founded by his father, the late Mr. E. A. Hay, over seventy years ago.

HERMAN.—Recently, Mr. John Bartholomew Herman, M.P.S., 26 Glenmore Avenue, Mossley Hill, Liverpool, 18. Mr. Herman qualified in 1903.

KING.—Recently, Mrs. Alice M. King, wife of Mr. Bernard James King, M.P.S., The Pharmacy, Goring, Oxon.

ORR.—Suddenly on July 1, Mr. John Orr, M.P.S., 129 High Street, Lanark, aged sixty-six. Mr. Orr went to Lanark with his parents when he was four years old, on their return to Scotland from America. He served in the R.A.M.C. in Mesopotamia during the 1914-18 war. In 1925, he set up on his own account as a pharmacist in the town. He was Lord Cornet for the Larimers of 1932; treasurer for eleven years of the Guildry of Lanark; and an ex-captain of Lanark golf club. He is survived by his widow, two daughters

and a son, Mr. Ian Orr, M.P.S., who succeeds him in the business.

ROCHE LYNCH.—On July 3, suddenly, Dr. Gerald Roche Lynch, O.B.E., M.B., B.S., D.P.H., F.R.I.C., 81 Sussex Place, Slough, Bucks, aged sixty-eight. He was official analyst at the Home Office, 1928-54 and prior to that held the office of assistant official analyst. He was Privy Council visitor to the Pharmaceutical Society's examinations held in England. He was medical consultant to the Proprietary Association of Great Britain. He was examiner for Branch E for the fellowship of the Royal Institute of Chemistry, of which he was also successively a member of council, vice-president, and finally from 1946 to 1949, president. He was a past-president of the Society of Public Analysts and Other Analytical Chemists. In his capacity as Home Office analyst he figured in many murder trials.

WESTCOTT.—Recently, Mr. Kenneth Westcott, M.P.S., 24 Danesboro Road, Bridgwater, Somerset. Mr. Westcott qualified in 1938.

IN PARLIAMENT

MR. J. B. GODBER (Joint Parliamentary Secretary to the Ministry of Agriculture, Fisheries and Food) circulated in the House of Commons official report dated July 8 a list of organisations which he has consulted on proposals for regulations under the Agriculture (Safety, Health and Welfare Provisions) Act, 1956. The list included the following who had been consulted on first aid regulations:—The Association of British Pharmaceutical Industry, the Company Chemists' Association, Ltd., the Medical and Plaster Makers' Conference, the National Pharmaceutical Union, the Surgical Dressings Manufacturers' Association and the Pharmaceutical Society of Great Britain.

Poliomyelitis Vaccine

Since May 1956, enough poliomyelitis vaccine had been issued for two injections each of just over 1 million children in Great Britain, stated MR. DENNIS VOSPER (Minister of Health) in a written reply to MR. N. DODDS, on June 26. The number of cases notified in the twenty-four weeks to June 15 was 1,165, the corresponding figures for 1955 and 1956 being 446 and 689 respectively.

Purchase Tax on Commercial Vehicles

MR. G. NABARRO on July 1 raised on the Adjournment, the question of purchase tax on commercial vehicles, saying that it was stupid to tax one type of capital equipment for industry when "we fail to tax, say, a railway locomotive or wagon, or a Bristol freighter aircraft. No person or company buys a commercial vehicle for fun and there is no unfilled export demand for them." The Financial Secretary to the Treasury (MR. ENOCH POWELL) said the arguments "will be studied carefully" by the Chancellor of the Exchequer.

The National Health Service (Amendment) Bill was read a third time in the House of Commons on June 28, and passed.



in a private retail pharmacy and during his call-up period with the R.A.F. was engaged on biochemistry research

NEW PRODUCTS AND PACKS

Now in Parenteral Form. — G. D. Searle & Co., Ltd., Lane End Road, High Wycombe, Bucks, are introducing a parenteral form of Dramamine in 5-c.c. multi-dose vials. Each vial contains 250 mgm. of Dramamine. The vials are available in boxes of six.

Prednisolone, Buffered. — Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce the availability of Delstab-B tablets of prednisolone, 5 mgm., buffered with aluminium hydroxide gel and magnesium trisilicate. The product is supplied in bottles of thirty, 100 and 500 tablets.

New Pethidine Analgesic. — Roche Products, Ltd., 15 Manchester Square, London, W.1, are marketing Pethilofan, a combination of pethidine with the narcotic antagonist levallorphan tartrate in proportions which minimise respiratory depression without affecting analgesia. The product is available in boxes of twelve and 100 2-c.c. ampoules, each containing 100 mgm. pethidine plus 1.25 mgm. Lorfan. The product is a Dangerous Drug.

Long-acting Antihistaminic Preparation. — A new long-acting antihistaminic preparation, Histryl Spansule, is being marketed by Smith, Kline & French Laboratories, Ltd., Coldharbour Lane, London, S.E.5. In addition to its long action, achieved by the use of the Spansule sustained release capsule, the new product, which contains diphenylpyraline, is claimed to produce virtually no side effects, and to be effective in almost every patient. The standard strength contains 5 mgm. diphenylpyraline. A 2.5-mgm. strength for young children is also available. Both strengths are issued in containers of thirty.

Semi-permanent Hair Colourings. — Rapisol, Ltd., 27 Dover Street, London, W.1, manufacturers of Inecto hair tints, announce the introduction of "hair magic" semi-permanent hair colouring in "dispenser" display unit. Issued with a five-minute self-timing colour control, "hair magic" is claimed an ideal preparation for the home user. The range of colours totals twelve, with further additions projected, and includes dark plum, platinum blonde, golden brown, mellow gold and champagne blonde. No skin test is needed.



"Own Name" Sachet Shampoos. — Lincoln Hair Products, Ltd., 55 Stratford Road, London, W.3, are offering an "own name" shampoo sachet service. There is a choice of four shampoos and choice of nine printing colours and black. Minimum order is 2 gross.

Perfume Stick. — J. C. & J. Field, Ltd., Church Street, Amersham, Bucks,

are marketing Field's perfume stick in French Pink and French Moss.

New Toilet Soap. — An advertising campaign, claimed to be likely to break all records, has been organised by J. Bibby & Sons, Ltd., King Edward Street, Liverpool, 3, to launch a new toilet soap, New Araby. The product is first being introduced in the Northwest. All the company's advertising is emphasising the high lanolin content of the soap and its value in combating dry skin. The pale pink soap has a

TRADE

Now Nationally-Distributed. — The Bowater-Scott Corporation, Ltd., St. Andrews Road, London, E.17, announce that the range of coloured Andrex toilet tissues which was launched in the London area in May is now available nationally.

Discontinued. — CUXSON, GERRARD & CO., LTD., Oldbury, Birmingham, have discontinued issuing the 20-oz. pack of Eupinal and the 40-oz. pack of Tus-sola. — GENATOSAN, LTD., Loughborough, Leics, have discontinued issuing Hep-ergy; warehouse stocks are exhausted.

Penicillin Lozenges in New Pack. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, state that their penicillin lozenges are now available in a pack of 100 (ten rolls of ten). The new presentation replaces the pack of 250 (twenty-five rolls of ten) which is now discontinued. The smaller sizes continue to be supplied as before.

Electric Shaver Credit Scheme. — Details of a credit scheme for the Arvin Fernbrook electric shaver are obtainable from Ever-Ready Razor Products, Ltd., 26 Bedford Row, London, W.C.1. Under the scheme the retailer gets a cheque to the full value of the retail sale, less 15s. deposit received from the customer.

Fine Chemicals. — Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts, have asked for customers' attention to be drawn to the paragraph under "Fine Chemicals" (C. & D., Annual Special Issue, June 29, p. 690). They point out that their principal manufactures at their Welwyn works cover adrenaline, bismuth, chrysarobin, piperazine, santonin and quinine.

Prizes for Users. — Free transportable radio sets are being awarded as prizes each month in a competition organised by Coliclean, Ltd., 79 Leghorn Road, London, N.W.10. Details of the competition are given on a leaflet that accompanies each Coliclean product (stain remover jelly; Chiviclean; and Carpoclean). Entrants are asked to state "Why I prefer Coliclean."

Beauty Treatments in Hospital. — J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1, are operating at Goodmays, Essex, hospital a new beauty scheme under which a consultant visits the hospital once a week to give beauty treatments and advice to patients and staff and to train staff ultimately to take on the work for themselves. An official opening took place on July 8.

striking floral perfume. The package features a red, half-open rose against a blue background. The soap is available in toilet size and family size.

Electric After-shave. — An after-shave lotion for users of electric shavers, Corvette Electric after-shave and tonic freshener, is now available from Goya, Ltd., Badminton Court, Amersham, Bucks. The product has an oil/alcohol formula which is claimed to soothe away electric-shave dryness and condition the face for future shaves.

NOTES

Manufacturing Facilities. — Kingsgrove Laboratories Pty., Ltd., Forrester Street, Kingsgrove, New South Wales, Australia, state that they have available production facilities for a wide range of pharmaceutical and toilet preparations, together with an extensive range of packaging finishes. Production is supervised and quality controlled by "qualified pharmacists and chemists." The laboratories cover 40,000 sq. ft. of modern factory area.

Snapshot Competition. — The International Chemical Co., Ltd., 12 Chenes Street, London, W.C.1, announce details of a Kolynos snapshot competition elsewhere in this issue. Prizes are offered to retailers whose name and address appears on prize-winning entry forms submitted by the public. A bonus of threepence is also being paid to retailers whose name and address appears on any entry form submitted by the public.

Goodwill and Trade Marks Taken Over. — M. & R. Norton, Ltd., announce that they have taken over the goodwill and trade marks of Ava, Ltd., who are now retiring from business. All existing lines including Autumn Leaves, Chelsea Flowers, Summer Morn and White Heather toilet soap; Aziade solid perfume; Ava shampoo powder; Persaltum and medicated bath salts, will continue to be manufactured by Messrs. Norton who will be able to give all customers continuity of supplies. All orders should be sent to M. & R. Norton, Ltd., 9 Park Hill, Clapham, London, S.W.4.

Bonus Offers

JAMES WOOLLEY, SONS & CO., LTD. Victoria Bridge, Manchester, 3. Nurona sunbronze cream and Nurona liquid sun-tan cream. 36 bottles or tubes invoiced as 33.

S. MAW, SON & SONS, LTD. Aldergate House, Barnet, Herts. Hot-water bottles (Uniheat, super-heat, twin heat, Meteor, Comet, Cosy, Humpty Dumpty, Hey-diddle-diddle and Cosicot). Twelve Comet bottles free with forward order for 1 gross; six with 9 doz.; four with 6 doz. Till August 31.

ROBERTS WINDSOR SOAP CO., LTD. The Acre, Windsor, Berks. Roberts Windsor and brown Windsor toilet and bath soaps. 5 per cent. stocking bonus. Till August 31. Liquid Derbac, Derbac medicated shampoo and Derbac soap. Parcels yielding extra 5 per cent. and other extra 7½ per cent. respectively. Till August 31.

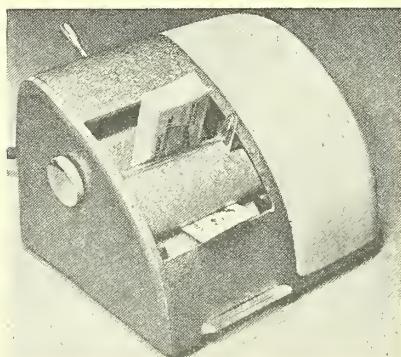
PACKAGING NOTES

Protection for Ointment. — Orange Diaphane cellulose film (Transparent Paper, Ltd., 51 Strand, London, W.C.2) is being used as an overwrap on jars of ointment by Fairbank Kirby, Ltd., Grimsby, to protect the ointment against ultra-violet light. The wrap also prevents the label and package being soiled by handling.

Nozzle Applicators. — A range of plastic nozzles for rectal and vaginal use is offered by Universal Metal Products, Ltd., Langley Road, Salford, 6, Lancs. The range includes a recently developed applicator with four side slots instead of a central orifice for use with certain types of haemorrhoidal ointment. All the rectal nozzles are produced with a standard No. 80 thread form, and the vaginal nozzle with a standard No. 95 thread form. Polythene has been selected for the nozzles because of its smooth finish, chemical inertness and texture.

"Three-in-one" Vial Caps. — Aluminium caps which combine into one for covering the top of vials are being marketed by Fords (Finsbury), Ltd., Chantry Avenue, Kempston, Bedford. When the "three-in-one" seal is fitted the opening procedure is: remove the outside tear-off aluminium cap by means of specially punched "finger-grip" (the seal is fitted to make the vial tamper-proof), after removal a dust cover aluminium cap can be slid off without deformation; the remaining cap is the seal proper and has a punched centre hole for easy entry of the hypodermic syringe. After use the dust cover aluminium cap may be replaced, protecting the syringe entry from outside contamination.

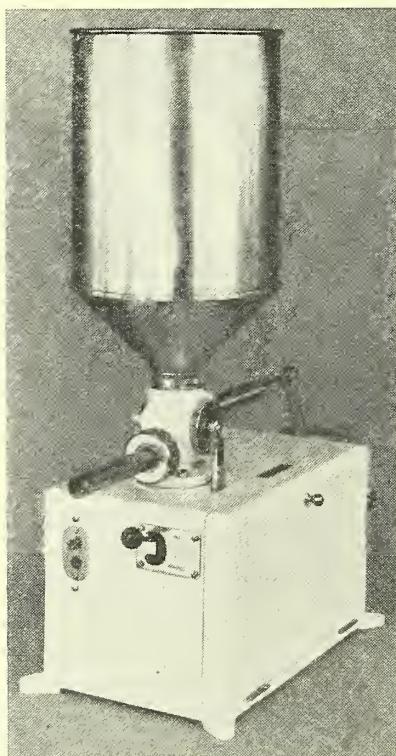
New Electric Labeller. — The Butterfly "junior" electric labeller introduced by Samuel Jones & Co., Ltd., Camberwell, London, S.E.15, is for "dispensing" and moistening small pre-gummed labels and seals. It accommodates 200-250 labels of all shapes, and either embossed or plain with size varying from



2 x 3 in. to 1 x 0.3 in. (standard machine). The label is moistened by a rubber-covered roller running at a higher speed than the feed roller so giving the label a slight "brushing" effect for more efficient wetting. The labeller is capable of taking labels up to 4 x 2 1/4 in. when small, extra fittings are utilised.

Polystyrene in Packaging. — BX Plastics, Ltd., Higham Station Avenue, Chingford, London, E.4, recently began marketing Bextrene-X, a new expandable polystyrene material which is claimed to be particularly suitable for packing fragile articles, comparatively light in weight, for air freight or postage. It is a good thermal insulator, thereby offering protection to items which must be kept at a uniform temperature when in transit or in store. The packs are comparatively simple to fabricate and can be economically produced for either small quantities or mass production runs. Supplied in granular form, Bextrene-X consists of polystyrene containing a blowing agent which causes the material to expand on heating into a lightweight rigid form.

Semi-automatic Filling Machine. — The Flexifil semi-automatic tube-filling machine (Flexile Metal Co., Ltd., 796 Holloway Road, London, N.19) (see *C. & D.*, April 13, p. 401) is driven by a fractional electric motor mounted in the housing. The operator has both



hands free to handle tubes and that, coupled with the elimination of operator fatigue, results in higher output than is possible with hand-operated filling machines. Running at eighteen strokes to the minute, the machine "can be expected to give an output of forty to fifty gross per day." It is suitable for filling jars and tins as well as tubes. All parts in contact with the product are of stainless steel. The stroke of the pump and thus the volume of fill can be adjusted; three pumps are available giving any volume from 5 c.c. to 170 c.c. The machine is easily stripped down for cleaning and



Collozets mouth and throat tablets (the Crookes Laboratories, Ltd., Park Royal, London, N.W.10) are now being marketed in a "pack within a pack." The outer cover of the pack, bearing the name and directions for use, can be shed, leaving a plain white box on which the chemist can affix his label giving doctor's instructions. The package, containing eighteen tablets, was designed by Mr. R. Scott-Miller, of the company's pharmaceutical development department.

all parts can be sterilised in an autoclave. The Flexifil is claimed to be ideal for smaller manufacturers of pharmaceutical, toilet and domestic products.

New Moistureproof Film. — British Cellophane, Ltd., 12 Conduit Street, London, W.1, are marketing a new transparent, moistureproof type of Cellophane cellulose film, known by the code letters MXXT, which is claimed to be exceptionally resistant to the passage of water vapour—"a more effective moisture barrier than any other film of comparable thickness at present available in the world." Other notable properties of the new film are its dimensional stability (under normal changes in humidity it will not shrink or wrinkle) and a sparkling surface brilliance "which makes packs in MXXT particularly eye-catching." MXXT is not adversely affected by creasing, printing or heat-sealing, and is highly resistant to fats, oils, greases and to the passage of gases and odours.

A Price Reduced. — A steady increase in sales which led to "large-scale improvements and mechanisation of production" is the reason for a reduction of about 12½ per cent. in the price of the Autopack vibrator feed weighing machine, state the manufacturers, Autopack, Ltd., Caroline Street, Birmingham, 3.



The QuicKies vanity-size pack which won a prize for product presentation, sales appeal and product protection in the third paper box and carton design contest (see *C. & D.*, December 29, 1956, p. 707). A feature of the pack is that it carries its message to the customer from almost every angle. QuicKies tins are shipped in the display outer illustrated which has been designed and produced by Shirley & Warby Box Co., Ltd., London.

DEVELOPMENTS IN THE UNITED STATES

New Insect Repellent

A new insect repellent, diethyl tolamide, has been released by the United States Department of Agriculture for commercial use.

Crown Gall Controlled by Antibiotics

A series of tests made by agricultural scientists at the University of Wisconsin, Madison, Wisconsin, have shown that aureomycin, Terramycin and chloramphenicol reduced gall formation in tomato plants without injuring normal tissues.

An Anti-virus Agent

A Canadian-American research team now on the staff of the Rockefeller Institute, New York, has isolated and identified a promising anti-virus agent called colominic acid. The new substance has been isolated from a strain of colon bacillus found in the gastrointestinal tract.

New Use for an Amino Acid

In experiments with laboratory animals, intravenous administration of the amino acid arginine has been found to reduce excessive blood ammonia levels more effectively than glutamic acid. The research work has been done by Drs. J. S. Najarain and H. Harper of the University of California, Medical Centre, San Francisco.

Heparin Made Radioactive

Heparin has been made radioactive for the first time by a group of scientists at the Gilman laboratory, New York Medical College, New York City. The new development opens the way for future research in the cause and control of abnormal blood clotting in such diseases as coronary thrombosis and radiation sickness.

New Antibiotic

Clinical trials of a new antibiotic, streptovaricin, which has shown itself to be highly effective in destroying tubercle bacilli in *in vitro* tests and in mouse tuberculosis, have now been started by the Upjohn Co., Kalamazoo, Michigan. The trials will measure the efficacy of the drug in human tuberculosis. The drug has been given the trade name Dalacin.

Plant Protection Product

A United States patent has been granted to Chas. Pfizer & Co., Brooklyn, New York, for antibiotic compositions for use in plant sprays or dusts to fight fungus and bacterial diseases simultaneously. The new patent covers two such compositions: One using streptomycin and a substantially water-insoluble copper fungicide and the other using streptomycin and such forms of copper with Terramycin.

Home Hair Trimmer

The Home Hair Trimmer Co., 20 West Jackson Boulevard, Chicago, 4, has designed a metal guide which permits "do-it-yourself" hair cutting by anyone owning a Remington, Schick, or Norelco electric shaver. The electric shaver is inserted into an adaptor which is mounted on the guide. The guide is placed over the head, and,

while one hand holds the guide, the other hand moves the shaver.

Waste Bark as Soil Conditioner

The Armour Research Foundation, Illinois Institute of Technology, Chicago, Illinois, have developed a method of converting waste bark into a soil builder. In tests conducted with greenhouse plants and field crops the product was found to be more effective in promoting growth and improving the soil than either peat moss or a commercial soil conditioner. Research on the product continues.

A New Anticonvulsant

Parke, Davis & Co., Detroit, Michigan, have introduced a new anticonvulsant drug, Celontin, for the treatment of patients with certain types of epilepsy. The drug is N-methyl- α -methylphenylsuccinimide. The new drug has been found to be effective in the treatment of psychomotor seizures and in reducing the frequency of seizures among patients whose petit mal attacks are not controlled by other drugs.

Anti-cancer Agent

A new chemical, 5-fluorouracil synthesised by Dr. C. Heidelberger (McArdle Memorial Laboratory for Cancer Research, Madison, Wisconsin) and Dr. Duschinsky and Mr. E. Pleven (Hoffmann-La Roche, Inc., Nutley, New Jersey), has been shown to have significant activity against several kinds of cancer in rats and mice. Its biological action may be related to that of 6-mercaptopurine and 8-azaguanine. The new drug is undergoing preliminary clinical trial.

Treatment for Irradiated Monkeys

Irradiated monkeys have been successfully injected with bone marrow from normal monkeys by Dr. R. R. Overman (clinical physiology professor at the University of Tennessee, Memphis) and his staff. While the immediate response showed that there was no difference between treated and untreated irradiated animals, the animals injected with normal bone marrow later began to develop red and white blood cells. Dr. Overman has stated that it seems that the blood pattern of animals treated with bone marrow returns to normal.

Chemical Treatment of Virus Diseases

A possible future chemical method of treating virus diseases by changing infectious agents into harmless ones by genetic alterations has been suggested by studies now being conducted by the virus laboratory at the University of California, San Francisco. According to the director of the laboratory, the production of a high rate of mutation, or genetic change, in viruses, has been achieved by making known alterations in their basic chemical structure. Viruses were induced to incorporate into one of their fundamental chemical compounds, deoxyribonucleic acid, a "foreign" substance. That foreign material, 5-bromouracil, was accepted by the viruses in place of a normal constituent, thymine.

Piperazine Derivatives

Carbide and Carbon Chemical Corporation have recently marketed the following piperazine derivatives: N-methyl piperazine, N-hydroxyethyl piperazine, N-aminoethyl piperazine, and N-phenyl piperazine. They are claimed by the company to be the first such derivatives commercially marketed. N-aminoethyl piperazine is expected to serve as an intermediate for pharmaceuticals, surfactants, dyes, and textile specialties. Derivatives of N-hydroxyethyl piperazine are useful as anthelmintics, antihistaminics, and tranquillisers. The other two compounds are expected to find application as intermediates for pharmaceutical products.

Cholesterol Depressor

Research workers of the National Heart Institute who have fed rats with a cholesterol-free diet containing 0.1 per cent. of delta-4-cholesterol, a synthetic drug closely related to cholesterol have found that serum levels of cholesterol have fallen to as much as 30 per cent. below that of the control group. At 1 per cent. the compound appeared to be toxic. The mechanism of the drug is not clear but the investigators do not think that it inhibits any particular enzymes. It has been known for some time that cholesterol synthesis is inhibited by a concentration of cholesterol in the liver and it may be that a concentration of almost any substance sufficiently closely related to cholesterol in structure and sharing its hydrophobic properties may produce a similar effect. The compound just tested has given encouraging results in preliminary clinical trials but it accumulates in the liver partly as dihydrocholesterol, a derivative even more closely related to cholesterol and which like cholesterol can be deposited in the arteries.

Utilisation of Vitamin C

In tests carried out for the United States Department of Agriculture by three American Universities it was found that practically all the healthy young women who took part maintained the same level of ascorbic acid in their blood no matter what their source of vitamin. Balances between the amount of acid eaten and the amount excreted in the urine were the same, the body using each source equally well. The women ate a basal diet low in ascorbic acid, plus one of the foods being tested. Enough of the test food was eaten to supply 50 mgm. of ascorbic acid. Each day samples of the women's blood and urine were analysed for ascorbic acid. Bodily levels of ascorbic acid were compared with those found when the women ate the basal diet without the test food but with 50 mgm. of ascorbic acid in crystalline form. The foods tested included: Broccoli, cooked and raw cabbage, kale, sweet potatoes, strawberries, tangerines, turnip greens, asparagus, green and lima beans, brussels sprouts, orange juice, peaches, peas, tomato juice, blackberries, cantaloupe, cauliflower, green pepper, potatoes, black raspberries and tomatoes.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A Boon

SIR.—Thank you very much indeed for the article "Films and Service for the Colour Photographer." It is a perfect boon to a retail chemist short of experienced photographic assistants and who is endeavouring to cope with all inquiries on colour.

W. S. C. COLEMAN
Leatherhead

Vitamins D₂ and D₃

SIR.—I read with interest, in your excellent special number (*C. & D.*, June 29), the two articles on vitamin D₃. Dr. Pickholz states that vitamins D₂ and D₃ are equally active in human and mammalian rickets and it is often assumed that vitamin D₂ and D₃ (calciferol) have identical effects in the human subject. For example the Extra Pharmacopœia (Martindale), Vol. 1, p. 301, states "there is little evidence to show that there is any significant difference in the therapeutic efficiency of the two substances in man." Work in the metabolic unit of this hospital by Professor C. E. Dent and his colleagues, however, has shown that the two vitamins are not interchangeable, and that vitamin D₃ is sometimes effective in rickets and other metabolic diseases resistant to calciferol. We are now using large quantities of those derivatives and of dihydrotachysterol, and it seems as if all three compounds are likely to play an important part in the treatment of several metabolic disorders.

T. D. WHITTET, *Chief Pharmacist,
University College Hospital,
London, W.C.1*

The Road to Higher Status

SIR.—I read with interest the correspondence signed Ex-Major (*C. & D.*, June 15, p. 644), though I was not altogether unaware of conditions in the Services. I believe his facts to be true, even when he asserts that a newly qualified B.Pharm. or M.P.S. in the eyes of Service chiefs "is just another dispenser." But he failed miserably to suggest where the fault lies that such an attitude exists. He went on to point out that a Service-trained pharmacist is far superior to his "civvy street" neighbour, though they have one common qualification. Surely Ex-Major must realise from his present-day observations that that attitude in the Services is bound to persist so long as the Pharmaceutical Society allows the mass employment of "juniors" whom we ironically classify as "unqualifieds" or "dispensing assistants." So long as we, in the retail and hospital sides of the profession, continue to employ acting unpaid pharmacists to do the nation's dispensing, how can we possibly expect, let alone command, a higher status in an organisation which has long been renowned for handing out acting unpaid ranks to men who do the job without just reward? I would respectfully suggest that the Pharmaceutical Society should take the necessary steps

to rectify that state of affairs before things get entirely out of hand. It can be done by elevating the status of our "dispensers." Only then will the term "just another dispenser" cease to be a humiliation to the persons concerned, or the B.Pharms., or the M.P.S.'s. Let us ban the "unqualified" element from our own ranks first. Then the Services will learn to respect all members of our once honourable and noble profession.

Sidcup, Kent E. J. TAYLOR

Progress

SIR.—For a time as a "knight of the road" calling on pharmacists throughout south-west England from Oxford to Penzance, it was my duty—sometimes unpleasant—to have to call on back street pharmacies whose proprietors were often neither efficient pharmacists nor capable business men. Too many shops were dull, dusty, and downright dirty—windows full of soiled showcards (sometimes even cobwebs), interiors gloomy and ill-lit. In the main thoroughfares things were different. There were beautiful old-world established shops with handsome fronts and keen proprietors who took a pride in their profession. Nowadays it is rare to find a dull, dirty, dusty establishment even in back streets. All are clean, bright and well stocked, well staffed with assistants in clean white coats or coloured nylon, and pharmacy has become a much better profession with a businesslike background. Phar-

macy has certainly progressed in status, prosperity and professional dignity.

ELDERLY LOCUM

Control of Advertising?

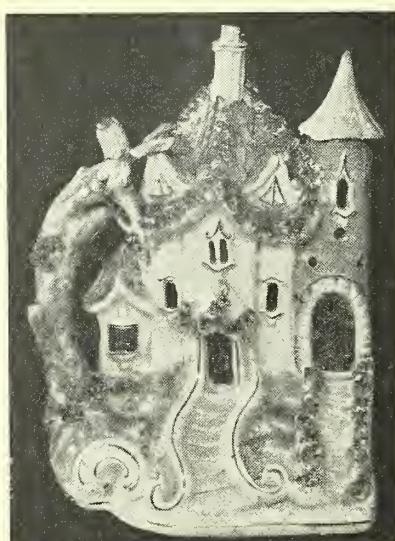
SIR.—Both the Republic of Ireland and the State of New South Wales, Australia, are considering the introduction of legislation to control the advertising of medical preparations (see *C. & D.*, June 15, p. 636, June 22, p. 660). In the Irish Republic, it is hinted that eventually the control of the sale and advertising of toilet goods may be seriously considered. Those two items of news should act as a warning to British manufacturers in both spheres. It is indisputable that the majority of manufacturers maintain a high standard in their advertising, in relation to the claims they make and the way in which they make them. And particularly does that hold good in trade advertising. But in the lay Press, by some of the less well known manufacturers' ridiculous claims are made from time to time. In the United States, such advertising has been nullified, in some cases, by the Federal Pure Food and Drugs Administration, which, only recently, took full-page advertisements in the American pharmaceutical Press to draw attention to a spurious cancer treatment. In the House of Commons recently a demand for an inquiry into claims made for certain brands of tooth-pastes was refused. But that again is a pointer to awakening public concern at misleading advertising. Is it not time that the cosmetic and pharmaceutical industries set up a joint committee to consider internal and voluntary control? At the Branch Representatives' meeting on May 17, 1956 (see *C. & D.*, May 26, 1956, pp. 434-36) it was moved by North Staffordshire Branch that the Pharmaceutical Society should undertake advertising "of an ethical and informative nature" in the national Press to set a standard of relationship between the general public and members of the profession. That motion was carried, and I think that in its implication it showed a certain concern in the pharmaceutical profession.

CONCERNED

Appreciation Well Deserved

SIR.—It was good to read the well chosen words of our past president of the Pharmaceutical Society on his appreciation of services rendered to pharmacy by our permanent secretaries and staff at Bloomsbury Square and to his fellow members of Council who give up so much valuable time (at no little expense) on our behalf. Few of us realise how much we actually owe to these gentlemen who serve us so well. It is a standing disgrace that so many of the rank and file of M.P.S.s are too apathetic to attend meetings or even vote on pharmaceutical elections. Non-voters should be fined or charged double retention fees (towards benevolent funds or to defray the extra costs of Council members) for their lack of co-operation.

SIDELINER



A LOCAL "BYGONE"

HOLDER FOR A NIGHT-LIGHT: At one time night-lights were commonly a part of the stock-in-trade of chemists and druggists. Did ever one go into such a pleasant "holder" as the early nineteenth century cottage fantasy in Staffordshire pottery here illustrated? A light placed within creates a charming picture of home and security as the golden light shines through the window holes. The falling tree on the left, which mingles with the mossy roof of the cottage evidently serves as a handle.

ACHROMYCIN^{*} V

TETRACYCLINE BUFFERED WITH SODIUM METAPHOSPHATE

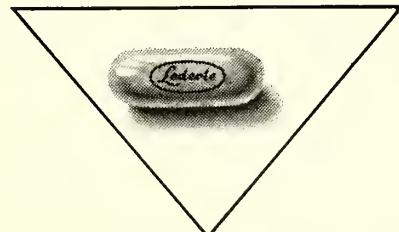
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makes the therapy more secure

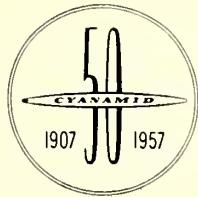
ACHROMYCIN V is an improved, oral form of ACHROMYCIN tetracycline—already recognised as today's foremost self-sufficient broad spectrum antibiotic. ACHROMYCIN V combines ACHROMYCIN tetracycline with sodium metaphosphate to provide more rapid absorption of tetracycline and higher levels of the antibiotic in the blood. This is achieved without any increase in the daily dosage of the antibiotic.

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SNAPSHOT COMPETITION**

**£2,600 in cash
prizes for your
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and big benefits for YOU!**

Here is an idea that will help to sell more 'Kolynos' toothpaste and at the same time *benefit your business in three direct ways*.

It's the new 'Kolynos' Snapshot Competition and it means that you can offer your own customers a chance to win £2,600 in cash prizes if they take their films to you for printing and developing, or if they buy their 'Kolynos' toothpaste from you. We look after everything. All you need do is to see that your customers get a competition Entry Form with every tube of 'Kolynos' toothpaste or every film they buy — or with every photographic wallet containing prints and negatives they collect.

Here's how you benefit. Each Entry Form has space for your name and address. And for every Entry Form with your name received by I.C.C. Ltd., *you will get 3d. bonus*. If any of your customers should win one of the four £250 first prizes you will receive £50. If he wins the £1,000 GRAND PRIZE, you get £100. If you tie-in actively this competition is bound to *increase your printing and developing business as well*.

This great 'Kolynos' Snapshot Competition will run from July 13th to Oct. 1st, 1957. Display material has been sent to you this week—give it a good showing! Stock up on 'Kolynos' Super-White and Chlorophyll Toothpastes now.

**YOUR BUSINESS
WILL BENEFIT IN
3 DIRECT WAYS**

1 Increased Printing and Developing Business
The 'Kolynos' Snapshot Competition is designed to sell 'Kolynos' toothpaste, and also help increase your photographic printing and developing business. To help you tie-in without prejudice, the announcement streamers make no mention of 'Kolynos'.

2 Cash Prizes for You if any of Your Customers Win
All Entry Forms have space for the customer to write the name of your shop (or for you to stamp it in). There will be a £50 cash prize for every Chemist shop that supplies Entry Forms to one of the four 1st prize-winners and £100 in cash from the shop that provides the Form for the £1,000 GRAND PRIZE winner.

3 3d. Bonus for every Entry Form from your Shop
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To help your shop participate individually in the great new £2,600 'Kolynos' Snapshot Competition two specially designed displays are offered to you. Make certain you have them up and ready by July 13th when the great competition starts. Be sure to keep them in the public eye until Oct. 1st when the competition ends.

* ANNOUNCEMENT "STREAMER"

Here is a sensible and versatile streamer for use in windows, on doors, counters and shelves. What's more, its message reads: "Bring Your Films Here and enter the great £2,600 Snapshot Competition." To help you tie-in without prejudice it makes no mention of 'Kolynos'.

* COUNTER "ENTRY-FORM DISPENSER"

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Get ready for the 'Kolynos' Snapshot Competition starting July 13th, 1957. Stock up on 'Kolynos' Super-White and Chlorophyll toothpaste. Keep the displays prominent.

*These are the cash prizes
your customers can win*

The 'Kolynos' Snapshot Competition is divided into four sections with a complete scale of prizes for the best in each section—plus £1,000 GRAND PRIZE for the Best-of-all Entry. Entry is free, requiring only an Entry Form, a snapshot and one empty 'Kolynos' toothpaste carton (either Super-White or Chlorophyll). One 'snap' to each entry. Entries unlimited. Here are the prizes your customers (or you yourself) can win.

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CHILDREN
PETS
HOLIDAY HAPPINESS
BEAUTIFUL VIEWS

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of £5 each

For the Best of all 'Snaps' there is a
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'Kolynos' NOW!

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The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at
28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMUS ESTRAND, LONDON"

Less Independent than it Seems

We are not entirely happy about the composition of the committee recently appointed by the Minister of Health (see *C. & D.*, June 22, p. 667) to investigate the cost of prescribing under the National Health Service.

The committee was intended to be an independent body with a lay chairman, five general medical practitioners representing different areas and types of practice, the dean of a medical school, two physicians, a pharmacologist, a pharmacist, and a statistician. Of the members actually nominated, the five G.P.'s comprise one who is a medical officer to the Treasury (and assistant medical officer to the London County Council), and four who are either secretary or vice-chairman of their local Medical Committee. For an "independent" committee one would have expected members less closely identified with the administrative side of the Health Service. As the Treasury is the prime mover in the call for "cheap" prescribing, the appointment of a Treasury medical officer is particularly unfortunate.

A more serious criticism is the absence of anyone qualified to advise the Committee on the many complications and problems of the manufacturing industry. Armchair pharmacologists are prone to believe that two preparations containing the same amount of active ingredient must be identical in their efficacy, a fallacy patent to anyone conversant with modern formulation and processing methods. Modern drugs are usually complex and often temperamental, requiring precisely adjusted conditions for their manufacture and administration. The wise choice of, say, a suitable buffering agent or the right emulsifier may mean the difference between a good and an indifferent product. Even the physical condition of the active ingredient may exert an influence, as one manufacturer may find out, whether from experience or experiment, more successfully than another. The leading established manufacturers of "ethical" proprietaries, with their superior research organisations, may be expected to take the lead, as they usually do. Important advances introduced by them may take years to find their way into official books of standards. Certainly recent advances in organic and physical chemistry and chemical engineering have gone far beyond the scope of the modest instruction in those subjects that is included in the medical curriculum, and the committee, if its decisions are to have the validity the community has a right to expect, needs the advice of a member conversant with modern manufacturing methods. The Editor of the British Pharmaceutical Codex (and the joint secretary to the National Formu-

lary Committee) is again too closely identified with official medicine to be the committee's sole spokesman for pharmacy.

However much the Minister may disguise it in the terms of reference, his aim in appointing the committee is evidently to further his campaign against the pharmaceutical industry. We even wonder why, at this moment, it was considered necessary to appoint such a committee. Only recently the Minister announced the conclusion of an agreement on prices with the Association of British Pharmaceutical Industry, and it was to run for three years. Why not leave the industry a breathing space to get on with its job in the light of that agreement. Time will show whether the price machinery the agreement sets up achieves that fair balance among a number of considerations, affecting the national welfare in a variety of ways, which is perhaps as much as should be aimed at or may reasonably be hoped for.

Shop Tenants under the new Rent Act

MANY tenants of shop premises hitherto protected under the legislation must be wondering what their position is under the Rent Act recently given effect. The new statute will, to say the least, raise complex problems. So far as shop tenancies are concerned it has to be read in the light of other Acts, notably the Landlord and Tenant Act, 1954. The shop tenant principally concerned is the tenant of premises with rateable values in excess of £40 in London or £30 elsewhere.

The first question that arises is whether, though the premises became decontrolled on July 6, the tenancy enjoys protection during the fifteen-month standstill period that expires on November 6, 1958. It has been noted that a tenant of residential-cum-shop premises that enjoyed the protection of the Rent Acts could not claim the benefits conferred on shop tenants by Part II of the Landlord and Tenant Act, 1954. But immediately the premises, as distinct from the tenancy, ceased on July 6 to be controlled by the Rent Acts, the bar to protection under that Part II is automatically removed. It follows that such tenants cannot enjoy the limited protection afforded to other tenants of decontrolled houses during the "standstill period." They should not neglect, therefore, to observe the procedure laid down by the 1954 Act if they are to enjoy the protection afforded by that Act.

Existing tenancies of residential-cum-shop premises will automatically continue, even after the date on which they are due to expire by effluxion of time. But the landlord may serve a notice to quit. If the notice is to be valid it must be in the prescribed form. Assuming that it complies with the requirements, the tenant, to protect himself, must (neither before two months nor after four months) apply to the court for a new tenancy. He must also, within two months of giving notice, notify the landlord in writing that he is not willing to give up possession of the property. It cannot be too strongly emphasised that the tenant loses all protection unless he complies strictly with those formalities and the time limits.

The problem arises whether the tenant who applies for a new tenancy under the Landlord and Tenant Act, 1954, is entitled to have the whole of the premises, including the residential portion, included in the new tenancy. Part II of the 1954 Act applies to shop and not to resi-

dential premises, but in certain circumstances the tenant is entitled to a new tenancy of the whole, including the residential portion.

The right is limited. It may only be claimed where the tenant himself occupies the residential portion, or where the residential portion is occupied by a person employed by him (say, a manager) for the purposes of the business

Onward from Galen

A CURRENT CAUSERIE

TIMELY, if old, advice on the wearing of sun-glasses was given to the public in an article in *The Times* on June 17. The writer held that people with healthy eyes need only wear sun-glasses for winter sports, sailing, or sun-bathing on the beach in brilliant sunshine. Common sense indicates their use when the glare of the sun is causing inconvenience, but any other use of them by people with healthy eyes is "purely cosmetic," and not to be recommended. The advice is offered that no one who wears ordinary glasses for any reason should ever wear sun-glasses without first consulting his or her doctor; and that the glasses must in all circumstances contain good lenses or "flats." In practice, that means buying them from chemists or opticians, and being prepared to pay a reasonable price (for the lens, not the frame). The woman who considered sun-glasses cosmetically desirable could achieve her ambition and do her eyesight no harm provided she bought wisely and paid as much attention to the lenses as to the frame—and always provided her eyesight was normal. The writer recommends that no child should wear sun-glasses that have not been approved by the child's doctor.



SIR David Prain, who was born in Scotland one hundred years ago (on July 11, 1857), was a medical graduate of the University of Aberdeen. He joined the Indian Medical Service, greatly extended the scientific knowledge of the Indian flora, and played a leading part in promoting the cultivation of medicinal plants: the production of cinchona in India was largely due to his initiative and business acumen. In 1898 Prain succeeded Sir George King, alike as superintendent of the Royal Botanic Garden, Calcutta; as quinologist; and as director of the Botanical Survey of India. King had taken a keen interest in the *Cinchona succirubra* plantations and factory at Sikkim. Being in possession of a process for extracting the alkaloids and obtaining quinine sulphate, he marketed with the aid of new machinery, a febrifuge containing the total alkaloids at a price within the reach of the poorest patient. The doctors, however, preferred pure quinine sulphate, and Prain accordingly replaced *Cinchona succirubra*, which has a poor quinine content, with *Cinchona Ledgeriana* which is rich in the alkaloid though more difficult to cultivate. In 1893 he prepared a report on Indian hemp, and his suggestions, both fiscal and social, were promptly adopted by the Government of Bengal. Prain retired from the I.M.S. in 1905 with the rank of lieutenant-colonel, and on his return to England was appointed director of the Royal Botanic Gardens, Kew. He was knighted in 1912 and died on March 16, 1944, aged eighty-six.



BIG fleas have little fleas upon their backs to bite them, and little fleas have smaller still, and so, assumedly, *ad infinitum*. The equilibrium, however, looks like being drastically upset if the ingenuity of man—the big flea—continues as revealed in the report on Pest Infestation Research for 1956. In a quest to find insecticides more toxic to the insect pest and even less toxic to man than at present, workers in the Department of Scientific and Industrial Research have used radioactive techniques. Labelled carbon or phosphorus is fed to or injected into the insect, with the result that a whole range of biochemically related substances become "labelled." Changes induced by insecticides in the relative proportions of those labelled metabolites can thus be readily

carried on by him in the shop. If the residential portion be not so occupied, but has, say, been sublet, or is occupied by a person employed by the tenant in connection with a business carried on elsewhere, the tenant is entitled, under the 1954 Act, to a new tenancy of the shop premises only, the residential portion being excluded.

detected. New light has been shed on the mode of action of methyl bromide. It was expected from its reactivity with thiol groups that it would interfere with the phosphorus metabolism and respiration. Labelled studies, however, have shown that the initial paralysis is due to a rapid fall in the adenosine-triphosphate content of the muscle. Nor are the later collapse and death explained by any disturbance in phosphorus metabolism or respiration. Similar studies have given evidence in DDT action of a biochemical lesion and of a possible new mechanism of anticholinesterase action in insects. The report, price 4s. 6d., is obtainable from H.M. Stationery Office.



SOMETHING of the difficulties under which Hungarian scientists are carrying on are indicated in a letter recently received by Mr. Edward Gurr, F.R.I.C., F.L.S., author of a book on microscopical staining techniques. Its unintentional humour does not disguise the genuineness of the appeal, which was rewarded. The letter reads:

SIR,—My favourite book—Sir Professor's excellent "Practical Manual of Medical & Biological Staining Techniques" was destroyed owing to tragic happenings in Budapest this winter. Please if it is not too inconvenient to you to send me a copy of it, as the book is badly needed and amongst our circumstances it is wholly impossible obtain here now. Your possible help would facilitate advancement of a Hungarian scientific medical research assistant and some others ones this interests greatly. You will overlook my uncommon request which is result of solid desire to continue my research work in these hard times also in spirit of the pureness and universality of science. The sympathy and effective aid of English and other foreign scientists stimulate us in this ambition, which we hope is going, too, for the scientists remained in Hungary in very grave situation. With advanced thanks . . .



For once it is Backward to Galen! The Bristol delft syrup jar on the left has an interesting feature in the head of Galen on the spout. A photograph of the jar, which stands 6 in. high, and of a companion jar, which is 6½ in. high, was sent to us by Mr. R. T. Christopher, M.P.S., Bradford-on-Avon. He also sent us the photograph of the grass-green Bristol glass Undine eye-bath on the right. With a height of 6½ in., it has a capacity of 4 fl. oz. Period: Early nineteenth century. Mr. Christopher found the eye-bath in an antique-dealer's shop. It came from the surgery of a family of doctors. The antique dealer thought the object was a measuring glass with a pouring lip.

Overcrowding on the Dispensary Shelf

An approach to the problem of reducing it

KENNETH HOLLAND

DURING the past decade the practice of pharmacy, as it applies to the manufacture, preparation and distribution of drugs, has undergone changes perhaps more profound than any that have taken place in its long history. Not least of the changes has been the enormous increase that has occurred in the prescription of those mass-produced, prepacked and trade-marked medicines—the "ethical pharmaceuticals," and the concomitant decline in extemporaneous dispensing. Some cynics would have it that those changes are due, in the main, to the provisions of the National Health Service Acts. That that is not the case is shown by the almost universal occurrence of those changes. They are observable wherever modern medicine is practised. In fact, the percentage of ethicals prescribed is, in some countries where private medicine still flourishes, notably in the United States of America, even greater than it is in this country.

"Surprising, and a Little Shocking"

Pharmaceutically "difficult" substances, such as the antibiotics and many of the new synthetics, especially lend themselves to mass-production techniques, and it is not surprising to find them appearing under a variety of trade names. What is surprising, and perhaps a little shocking to the older generation of pharmacists, is the appearance in "ethical dress" of a multitude of formulations of both new and old drugs which, before the 1939-45 war, would almost certainly have been extemporaneously prepared at the dispensing counter. If the inevitable duplication which must attend the competitive search for improved presentation is also taken into account, then the problem of the crowded dispensary shelf becomes a pressing one indeed!

But it is not the dispensary shelf alone that has been cluttered by this rapid expansion of the *materia medica*! Medical and pharmaceutical practitioners alike are dazzled and dismayed by a galaxy of names which seems only limited by the five vowels and twenty-one consonants of the alphabet. When an official name is coined for a substance already sold under five different names then insult appears to be added to injury.

Everyone agrees "something must be done about it," but what that "something" is might be the answer to the "sixty-four-thousand dollar question." Some are of the opinion that the current swollen nomenclature of pharmaceutical success will not last. They believe that most of the present products will die a natural death, and that the spate of new ones will cease, followed by a return to the old-fashioned "bottle." That viewpoint is expressed mainly by those who look backwards for comfort, for today when an old product dies, it is often replaced by a dozen new ones.

Three possibilities remain. Pharmacists can:—

(1) Do nothing. Perhaps that is what will happen—until every dispensary needs a warehouse and a dozen filing cabinets attached!

(2) Demand Government intervention. One day a Government may intervene, but it is to be feared that it will only do so effectively by interfering seriously with the enterprise of free competition. That would be killing the goose because its golden eggs were of different sizes and shapes!

(3) Engage in an active campaign of "prescriber guidance." That, surely, is the remedy of choice, avoiding all those "unwanted side-effects" inherent in (1) and (2) above.

From the long-term point of view that prescriber guidance will become unnecessary when all medical men have, as students, studied pharmacology much more deeply than many present-day practitioners have had a chance to do. So

much of the subject is so very recent that many years may elapse before they can get that chance, though one shudders to think of the number of names the student of 1987 will need to know. The Ministry of Health has sought to guide prescribers by such publications as *Prescribers' Notes* and the reports of the Cohen Committee, but those have been issued more with an eye to an economy of cash than of names. The latter economy is the affair of the professions concerned—medical and pharmaceutical.

At the May 1953 Branch Representatives' meeting it was suggested that the Council of the Pharmaceutical Society should take the initiative by seeking the co-operation of other interested bodies in setting up a permanent committee to examine all products submitted to it by manufacturers. Such a committee would grant to successful products, on the basis of agreed criteria, a certificate allowing a mark to be used on literature, advertisements, labels, etc., so that doctors would receive guidance in the choice of medicaments. That idea missed the support of the meeting but perhaps narrowly and because the complexity of the issues involved required more consideration than time allowed.

Guiding Principles

Such a learned committee, if set up, could act according to the following criteria:—

(1) The product submitted should be supported by evidence of satisfactory clinical trials, arranged with medical men in the usual way, by the manufacturer. That requirement would apply to new substances and to improved presentations or formulations of existing drugs.

(2) The committee would satisfy itself that the product was either a new therapeutic substance or represented an innovation in formulation, presentation or sheer pharmaceutical elegance having a real advantage over existing products. The advantage might operate only in certain circumstances and with a minority of patients (for example, a substance originally introduced as the bromide by one maker and submitted by another in the form of the tartrate would, perhaps, be approved by the committee where it was shown that bromism was induced in certain patients by the original drug).

(3) Evidence of proper control of standards of purity, etc., would be demanded.

The effects of (1) and (2) above might well discourage copyists from coining new names for their duplications and persuade them to use only the official names when marketing substances first introduced by their rivals. Substances discovered and clinically tried to the point of general release by hospitals or universities (a rare event, one feels, for a manufacturer is usually "in" on the work well before that point is reached) would not be considered by this proposed committee.

Objections to the proposal were raised on the basis of cost. The expenses of the committee would no doubt be high, but they could be met partly from the funds of the founder organisations (since their members would be assisted by the limitation of nomenclature which I believe would be effected) and partly by the imposition of fees charged to manufacturers for examinations of the products they submitted. Those manufacturers would benefit by being enabled to attach to their successful products the mark of a committee composed of leading experts on pharmacology, pharmacy and therapeutics, and would thereby be able to gain a real advantage for the results of their research and initiative. Only the "lunatic fringe" of manufacturers would lose by the operation of such a scheme, for they would find it increasingly difficult to foist their products on

to overworked and unsuspecting general practitioners. All medical men would be left free to prescribe as they wished, untroubled by the restrictions which might well come to be imposed if Government action were taken.

The problem is complex, and the remedy suggested would

need much examination and amendment before it could be sponsored by the Society's Council. But it deserves that examination for it offers at least the chance of a solution to the problem of a pharmaceutical plethora that threatens to become a complete thrombosis.

A FAMILY PHARMACY CLOSES DOWN

Eighty-year-old Nottingham business ends with proprietor's retirement

THE recent retirement of Mr. H. P. Middleton, M.P.S., has brought to an end a family pharmaceutical business in Nottingham that has flourished for nearly eighty years. It was founded by Mr. Middleton's father Ambrose, who, after having been science teacher at Holy Trinity Schools, Nottingham, for some time before 1873, decided that he preferred pharmacy to teaching as a career. Consequently in 1873 he went as a junior to Williams & FitzHugh, Nottingham (now FitzHugh & Carr), where he stayed for three or four years before going for pharmaceutical training to the South of England school of pharmacy (Muter's College), London. He qualified as a chemist and druggist in 1877, and acquired his first pharmacy two years later in Southwell Road, Sneinton, Nottingham. Later he acquired two smaller businesses (at Middle Marsh and Drury Hill, Nottingham) and in 1885 he bought a pharmacy belonging to a Mr. E. T. Towle at 25 Lister Gate (founded in 1826), which he made his headquarters for the business. The Drury Hill pharmacy was near Nottingham's famous lace market and a speciality was the dispensing of foreign prescriptions for the many French and German firms established in the market. Southwell Road premises (which later were sold) provided a dental service and Mr. Ambrose Middleton became adept in extracting teeth at a charge of threepence per tooth for children and sixpence for adults!

Good Advice

Mr. H. P. Middleton was apprenticed to his father for five years and well remembers the paternal advice to "learn the B.P. by heart before you go to college." After following that advice he went to Duncan's College, Edinburgh, and qualified in 1903. He then took a "sleeping-in" post with FitzHugh & Carr where he remained for about two years before going to J. B. Barnes & Son, Knightsbridge, London, for twelve months. Then for a further year he spent some months each in pharmacies in Geneva, Cannes and Monte Carlo. Many are the anecdotes he can smilingly relate of that period of his career. To practise pharmacy in Switzerland he had to take Swiss nationality, and in Monaco he had to become a Monagasque. On his return he gave a talk to the Nottingham Pharmaceutical Association on his experiences.

In 1907 Mr. Middleton was taken into partnership by his father. Father and son paid special attention to truss fitting, and indeed all the rupture cases from the local railway goods dépôt were treated at the Lister Gate pharmacy. It was perhaps, then, quite natural that Mr. Middleton should have been approached, when the fitting and supplying of trusses became part of the National Health Service, to give to Nottingham pharmacists a course of truss-fitting lectures. Unfortunately, ill-health prevented his doing so.

Mr. Ambrose Middleton died in 1917 and the Middle Marsh and Drury Hill pharmacies were sold at the end of the 1914-18 war because of the difficulty in obtaining managers. Mr. H. P. Middleton continued to use the Lister Gate pharmacy as his headquarters until 1935, when, on the expiry of the lease of the premises, he transferred to 28 Milton Street, Nottingham. The lease of those premises expired recently and, at the age of seventy-six, Mr. Middleton decided to retire and close the business.

The problem then facing him was how to dispose of the

stock and records. When Ambrose Middleton had taken over the Lister Gate pharmacy he had acquired the existing fittings and they had later been transferred to the new headquarters at Milton Street. They were fine pieces in solid mahogany. All had to be sold, including a solid mahogany counter. To a private collector went a bell mortar by Davis, dated 1688 and to the pharmacy department of Nottingham University (under Professor G. E. Trease, who is also chairman of the History of Pharmacy Committee of the Pharmaceutical Society) he gave a set of Troy weights and an old infusion pot. To the Pharmaceutical Society he gave a copy (in the form of a pamphlet) of the "Rules for the Society of Chemists and Druggists in Nottingham," dated 1844. A specie jar went to a pharmacist who had at one time worked for Mr. Middleton for a short period, and a 2-grain and a 5-grain pill machines were purchased by a Nottingham pharmacist for their curio value.

Mr. Middleton marketed a number of his own proprietary medicines, which were well-known locally, and the recipes for them have gone to the business of F. Ross Sergeant (under the proprietorship of Mr. K. R. Sergeant, M.P.S., Nottingham) who intends to continue marketing those preparations. Among them are Hubble's drops (named after an employee of the bank of Samuel Smith, now the National Provincial Bank, Ltd.). The Mr. Hubble concerned, one of the clerks of the bank, had asked for a preparation for a particular ailment at the shop one day and thereafter came in frequently for the same preparation. He recommended the drops to his clients at the bank and to his friends, until finally they became widely known and used—as they still are in the city today. Certain of the shop's prescription books also went to Mr. Sergeant, some of them dating back to 1887.

Mr. Middleton disposed of most of his stock, but had almost despaired of disposing of two 12-gall. pear-shaped carboys when one day a man came into the pharmacy at Milton Street and made an offer for them which Mr. Middleton accepted. Later he received a letter from a Cumberland pharmacist who said the carboys had been purchased for him by his brother. He was most appreciative of their beauty; they now adorned his pharmacy window, which looks out on to the Irish Sea.

Regrets

For a period of about thirty-three years (1914-47) Mr. Middleton was treasurer of the Nottingham Chemists' Association, which later became the local branch of the Pharmaceutical Society. Mr. Middleton is a widower. He has two sons, neither of whom are pharmacists, making it unlikely that the name of Middleton will be perpetuated in the annals of Nottingham pharmacy—a matter for regret to his many friends, both in the profession and among his former customers. Sprightly and active, his bright eyes gleaming good humour at recollections of a life-time of pharmaceutical experiences, Mr. Middleton now intends to take a well-earned rest. He confesses that he would not like still to be in business, as "the old order has changed"—in his opinion not entirely for the better. Mr. Middleton regrets the passing of the days when pharmacists made their own pills, cachets and fresh infusions. His views of prescribing today are decisive: among other things he objects to the prescribing of proprietaries.

“OPEN SHOP”

AN UNSCRIPTED COMMENTARY ON THE
SPECIAL PROBLEMS OF THE PHARMACIST
IN RETAIL PRACTICE

E. C. TENNER

THAT frustration, the badly written prescription, has been receiving a spate of consideration at high levels in the medical and pharmaceutical professions and in the Press of both. The more that is said about illegible writing the better for those who have to read it, and the only “unfortunate” aspect of that wider consideration of the problem is that a certain amount of misunderstanding was at first allowed to develop within the British Medical Association.

“Puzzle Corner”

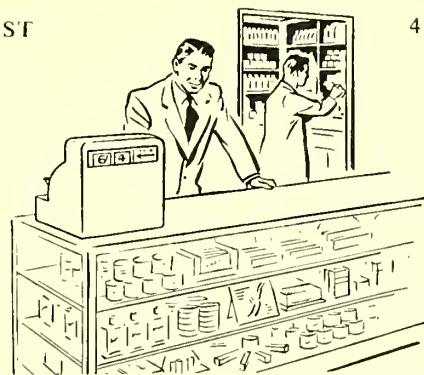
For too many years jokes have been made about doctors’ handwriting. Prescription-reading (“puzzle corner”) has its place in the Pharmaceutical Chemist Qualifying examination. There are good reasons why the problem should be treated seriously by the doctors. Trade-marked names of new medicines and nostrums are invented every day, and scientific accuracy is needed, in the interest of public safety, to prevent confusion of one name with another. Bad writing is unscientific and, when it comes from the pen of a professional man, is a symptom of bad manners.

Composing this article behind a screen of anonymity, I can say that, in the area of my local Executive Council, most of the doctors do write legibly, and when I do have to make an inquiry from them it is answered with courtesy and apology, but there are the inevitable eight or nine whose scripts are continually a cause for conjecture, delay and extra cost. Those eight or nine are not necessarily the busiest doctors, but from among them I do receive the rudest and most inconsiderate reactions to necessary inquiries.

So the problem really only concerns a minority of doctors, and somehow it must be made quite clear to the offender that careless and slovenly handwriting is not compatible with a high standard of medical practice.

The “incomplete” prescription is a different problem, and can involve even a doctor who scrupulously ensures that the pharmacist can read every word he writes. This is not a question of good manners. It is a question of forgetfulness of forensic and other regulations or of ignorance of the details of form, dosage and strength of packs of medicines to be ordered. Inasmuch as the EC10 is a main implement in the hand of the general practitioner, it has always surprised me that he enters upon practice with so little instruction in the correct usage of that form. I have been particularly exasperated by a doctor who had ordered an appliance which is “not allowed,” or a proprietary drug in a form that is not available and who, when contacted by telephone has said: “Oh, I knew there was a doubt about what I ordered, but I knew you would ‘phone me.” On the other hand I have welcomed a ‘phone call from a doctor who, before writing the EC10, wished to check the form, strength or pack of a medicine he wishes to prescribe regardless of whether the patient brings the EC10 to my pharmacy.

Now that EC10’s in every Executive Council’s area are “doctor sorted” for a period of every year, each doctor’s prescriptions are closely scrutinised. If every chemist contractor endorsed each EC10 he required to refer to the prescriber with a note to that effect, some practical hints



could be tactfully conveyed through proper channels to those doctors whose EC10’s showed such a need. It seems to me that such action could have an immediate and beneficial effect, while the policy of writing letters to all doctors, regardless of whether they have offended or not, is too weak to produce the required result and if misunderstood could cause offence.

Busy doctors will appreciate the position of a busy pharmacist, but only if it is explained to them. Patients who have waited their turn in the doctor’s surgery often show little inclination to do the same in the pharmacy, and it is most difficult to explain just why a prescription cannot be dispensed in the form in which the doctor has written it. Where the doctor’s personal endorsement is needed, the necessary return trip by the patient to the surgery is often salt in the wound. In any case great delay is caused by telephoning to the doctor, who may by that time have left the surgery.

Dignity for the Pharmacy

The National Pharmaceutical Union may well congratulate itself upon the production of the green-carboy dispensing display unit. As usual, when upon holiday recently, I have taken particular note of chemists’ shop windows in the towns I have visited. Again as usual, I have found that it is exceptional indeed to find a “pure pharmacy” display. Far too many windows were stuffed from floor to ceiling with every conceivable object that might be demanded of a chemist but that might similarly be found in drug stores or toilet shops, in stationers’ or hairdressers’ shops. For the good of us all I earnestly hope that every N.P.U. member will purchase at least one of these valuable units and reserve a sufficient part of his main window to give it adequate display. It will undoubtedly lend pharmaceutical dignity to the pharmacy and many badly need that loan.

The appearance and condition of our pharmacies should be kept under constant review and repair by each of us. It is not enough to await a hint from the Pharmaceutical Society’s inspectors. Indeed it might be arguable how far they are authorised to advise or criticise us outside the scope of the Pharmacy Acts. I mention that because an article has recently appeared in the *Executive Council*, a monthly magazine published by the Society of Clerks of National Health Service Executive Councils, headed “Inspection of Premises of Chemist Contractors.” The writer points out that the N.H.S. Acts provide for the inspection of the surgery accommodation of general medical practitioners, dental practitioners, ophthalmic and dispensing opticians, but that there is no provision for the inspection of the premises of chemist contractors under the N.H.S. Acts. Such inspection as may be made was originally authorised by the Pharmacy and Poisons Act, 1933. After describing the powers of the inspector of the Pharmaceutical Society the article continues:

An interesting point arises in cases where a member of the public, who has received pharmaceutical services under the National Health Service Acts, writes to the local Executive Council complaining that the premises in which medicines were dispensed are not in a clean condition. The Council has no power of inspection under the National Health Service

Acts, and the power of inspection under the Pharmacy and Poisons Act, 1933, would not appear to authorise an inspection to examine the general condition of the premises.

The inclusion in the Regulations made by the Minister under the National Health Services Acts of provision for the inspection of a chemist contractor's premises in the same way as, for example, an inspection of a dentist's surgery would

not conflict with the powers of inspection already authorised by the Pharmacy and Poisons Act, 1933, and would ensure a standard of cleanliness which is not incompatible with the standards of other practitioners providing services under the National Health Service.

If those quotations shock you as they do me remember: "The sting of a reproach is the truth of it."

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

THE PRESIDENT (Mr. C. A. Quinn), at the recent monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland, expressed regret at the death of Mr. Frank McGrath (president, Pharmaceutical Society of Ireland). Mr. McGrath, he said, was a kind and likeable person who had contributed great work for pharmacy. His inspiration and efforts had produced one of the most successful British Pharmaceutical Conferences. Mr. Quinn added that he had forwarded a message of condolence, and that the secretary (Mr. W. Gorman) had also sent a message of sympathy from the Society. The members stood in silent tribute. Mr. Quinn also referred to the illness of Professor Mayrs and on his suggestion the Council agreed to forward their best wishes for a speedy recovery.

Mr. Quinn expressed the appreciation of the Council for the hospitality which had been shown on the occasion of the Council's visit to Londonderry when they were the guests of the local association on a bus tour along the Atlantic Drive.

MR. GORMAN reported on an offer from Queen's University, Belfast, of equipment no longer required by the University and said that he had inspected the equipment and had chosen a tincture press, the property of the late Sir William Whitla. The press had since been received by the Society and was now in the Society's museum. It was agreed to thank the University for the gift.

A motion by MR. W. H. BOYD, seconded by MR. J. CALDWELL, to grant the application of Mr. Joseph Picken Devlin, 74 Bloomfield Avenue, Belfast, for the restoration of his name to the Register was agreed.

Final Draft of By-laws

Presenting the report of the Law Committee, MR. G. E. MCILHAGGER (chairman) said the draft of the by-laws was considered and several amendments made. The final draft had now been sent to each member of the Council and the Law Committee thought it would be advisable to let the Society's solicitor have the draft for perusal when the Council had had an opportunity to suggest any amendments. The report was adopted on the motion of MR. CALDWELL, seconded by MR. MCILHAGGER, and it was agreed to defer consideration of the by-laws until the next meeting of Council.

A letter from a firm of architects recalled that the attention of the Council had been drawn some time ago to the dangerous condition of a chimney stack—joint property of the Society and Princess Gardens School. The architects reported that a tender had been received from a contractor for £127 for the erection of scaffolding, the rebuilding of the chimney and the cleaning of gutters. The cost would be shared and the Society's share of the bill would amount to about £63. The Council agreed to accept the tender on the motion of MR. P. R. W. SHINNER, seconded by MR. R. GIBSON.

MR. GORMAN reported that he had received a donation of £52 10s. from the Northern Ireland Branch of the British Medical Association and £3 3s. from the Photographic Dealers' Association for the use of the Society's rooms. MR. J. McGREGOR proposed, MR. CALDWELL seconded, and it was decided to give the money to the Benevolent Fund.

Revision Courses

The Education Committee, in their report, referred to the fact that at a previous meeting of the Council the question of revision courses was raised and referred to the Committee for consideration. The Committee had decided that the most satisfactory course would be one of about six lectures in physiology, followed by a course of about six lectures in pharmacology. The Committee recommended that Dr. Shepherd of the department of physiology, Queen's University, should be asked to draw up a suitable course of lectures in physiology. It was also recommended that Professor Wade should be asked to devise a similar course in pharmacology. MR. GORMAN reported that it was intended that the lectures in physiology should take place in the autumn and should be completed by the end of November. The course would then be followed early in 1958 by the lectures of Professor Wade. Mr. Gorman said he had since been told that Dr. Shepherd would be leaving for America and would not be available but that Dr. R. G. R. Bacon (a member of the Council) was making further arrangements for an alternative lecturer to undertake the work.

The Committee had considered a letter from Portadown College asking if the Council approved of the use of micro-analytical technique for qualitative analysis as it was proposed to introduce that method in Portadown, and whether suitable apparatus would be available at the Final Part I examinations. MR. MCILHAGGER moved, MR. McGREGOR seconded, the adoption of the Committee's recommendations on revision courses to which the Council agreed. The Portadown College inquiries were referred back to the Committee for further consideration.

The report of the Finance Committee was adopted on the motion of MR. CALDWELL, seconded by MR. MCILHAGGER. The Council adopted the Committee's recommendation to increase the fees of examiners where the students taking the examinations exceeded certain numbers. The fees had been raised because of the larger numbers sitting for the examinations.

Truss-fitting Courses

MR. GORMAN reported that during a recent visit to Belfast, the Editor of THE CHEMIST AND DRUGGIST (Mr. Owen H. Waller) had undertaken to make inquiries about the possibility of holding courses in truss-fitting for the Society's members. Mr. Waller had been in touch with the Institute of British Surgical Technicians, and the suggestion was made that a course of an intensive nature occupying a full week with lectures and practical demonstrations in fitting for two to three hours each morning or afternoon and terminating with an examination should be held. Contact had been established with a Northern Ireland pharmacist who was a fellow of the Institute who had suggested that it might be difficult for Northern Ireland pharmacists to attend other than an evening course. Information needed was the number of pharmacists who might take the course and the times they could conveniently attend the lectures. It was agreed to refer the matter to the Local Pharmaceutical Committee who had a direct contact with the Northern Ireland General Health Services Board.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

NO ITINERANT "EVENING MEETINGS"

A Metropolitan Branch's suggestion turned down by the Council

THE Council of the Pharmaceutical Society, meeting in London on July 2 and 3, rejected a suggestion by the East Metropolitan Branch that Evening Meetings of the Society should be held in the areas of the London Branches in turn, and possibly in other large centres. The Council refused an invitation from the Branch to hold an Evening Meeting in Leytonstone.

THE PRESIDENT reported with deep regret the death of Mr. P. F. McGrath (president, Pharmaceutical Society of Ireland) (see *C. & D.*, June 15, p. 637). The secretary and registrar was asked to send to Dublin an official expression of the Council's condolences.

Educational Policy

The Council approved the recommendation of the Education Committee that all persons registered as "student" of the Society on and after March 1, 1958, should be required to undergo a three-year full-time course of study in preparation for the Pharmaceutical Chemist Qualifying examination. Approval was also given to the issue of a statement on educational policy (see *C. & D.*, July 6, p. 5).

The Education Committee noted a memorandum from the Association of Teaching Hospital Pharmacists commending the suitability of many hospitals for the practical training of post-graduate students.

The Public Services Committee reported that permission had been given by the Ministry of Health for the vacational employment of pharmaceutical students in two teaching hospitals in London, payment being made at the rates set out in paragraph 2 of the P.T.B. circular No. 4 for assistants-in-dispensing.

Advanced Diploma in Pharmacology

The Committee noted regulations for an advanced diploma in pharmacology, a course for which was being established at Chelsea Polytechnic. The chairman of the Committee said that the course was of particular importance to pharmacists who were not University graduates and were not, therefore, able to take higher degrees.

Reports on visits to several schools of pharmacy that had applied for renewal of approval for the provision of instruction for the Society's Qualifying examination were considered by the Education Committee on whose recommendation the Council agreed that the following should be approved for a period of five years from July 1957:— Bradford, Sunderland and Brighton Technical Colleges and Leicester College of Technology.

The director of education for Brighton informed the Council that the Joint Committee of Representatives of Sussex Education Authorities thought that it would not be possible to include a pharmacy department in the provision for a University College of Sussex. MR. C. W. MAPLETHORPE (chairman, Education Committee) explained that a new technical college was being built, in which the pharmacy department would be considerably expanded.

Branch Representatives' Resolutions

The Education Committee noted the resolutions on educational matters that were passed or discussed at the Branch Representatives' meeting in May, and deferred for further consideration those on post-graduate apprentices and pharmacists employed in research and manufacturing. The Public Services Committee considered the resolution calling for the Society to take the lead in preparing the way for a single unifying organisation with authority to speak for all pharmacists, and asked the secretary to prepare for consideration a list of pharmaceutical organisations which might be asked to attend a preliminary meeting to discuss the resolution, and a suggested agenda for such a meeting.

Greetings from Singapore

The Education Committee received a letter from Mr. H. B. Mackie referring to his recent visit to Singapore, and conveying to the president and Council of the Society the greetings of Singapore pharmacists. The Committee accepted Mr. Mackie's offer to provide a statement on educational developments in Singapore.

Scholarships and Grants

The Council approved the following recommendations of the Education Committee:—That the president, chairman of the Education Committee and Professor A. D. Macdonald should be appointed to the adjudicating committee for the award of the Wellcome Pharmaceutical Research Fellowship for 1957; that the two representatives of the Wellcome Trust on the Wellcome Pharmaceutical Research Fellowship adjudicating committee, with Professor Macdonald, should be invited to constitute the recommending committee for the Society's research awards for 1957; that the president, vice-president, treasurer, and the chairman of the Education Committee should be appointed to consider applications for educational grants, and to make recommendations to the Council.

No Recognition of Glasgow Associateship

The Royal College of Science and Technology, Glasgow, asked the Society to grant the same recognition to the Associateship of the College as was granted to the degree of B.Sc. in pharmacy at the University of Glasgow. The Associateship was being awarded on the basis of the course for the Pharmaceutical Chemist Qualifying examination which was being extended from two to three years. The Education Committee had before them the views of the Executive of the Scottish Department on the request. The Council accepted the Education Committee's recommendation that the College should be informed that the present legal position did not permit the recognition of the Associateship in the same way as a University degree, and that the request could not be considered apart from the wider question of the recognition of internal examinations generally.

"The Pharmacy of Poliomyelitis Vaccine"

The curator's report referred to arrangements for the presentation of an exhibit entitled "The Pharmacy of Poliomyelitis Vaccine" in the scientific exhibition at the annual meeting of the British Medical Association, at Newcastle-on-Tyne, July 15-19. The Establishment and Organisation Committee agreed that the exhibit should be subsequently placed on view in the Society's House.

The Public Services Committee received a resolution from the South-west Metropolitan Hospital Pharmacists' Committee urging that the conference envisaged by paragraph 41 of the Linstead Report should be called to consider (a) the standard of skill required for a dispensing assistant in hospitals; and (b) the training and examination requirements needed to ensure it.

Benevolent Fund and War Aid Committee

The Benevolent Fund and War Aid Committee's report showed that grants had been made to six widows and five members, amounting to £392. Recommendations for grants to two other widows, amounting to £162, were approved. Four applications for assistance were deferred, and in one case no grant was made. A grant of £10 to reimburse the Casual Fund in one case was approved, and the Committee also approved the payment of £3 from the Benevolent Fund to beneficiaries whose grants expired during June. The

quarterly report of the Fund showed that in the three months April-June, grants were made to thirteen members and twenty-three widows, amounting to £2,224, against twelve members and twenty-six widows, amounting to £2,320, in the same quarter of 1956. The warden of Birdsgrove House reported that in the month to June 16, sixty-six guests stayed at the convalescent home for an aggregate of eighty-seven weeks, against sixty-one guests and eighty-four weeks in the same period of 1956. Twenty-one contributions, amounting to £82, were received from guests to supplement weekly payments. Gifts in kind was also reported. The Committee decided to invite Messrs. Green, Mellor, Neal Morris and Clement Shaw to attend meetings at Birdsgrove House during the year.

Chairmen of Committees

The Standing Committees of the Council reported that they had elected or re-elected their chairmen as follows:—Benevolent Fund and War Aid, Mr. T. Heseltine; Education, Mr. C. W. Maplethorpe; Establishment and Organisation, Mr. E. A. Brocklehurst; Finance, the treasurer; Law, Mr. W. J. Tristram; Publications, Dr. B. A. Young; Public Services, Mr. H. S. Grainger.

The following were appointed to the Ethical Committee: Messrs. J. Farrer Barnes, E. A. Brocklehurst, W. T. Elder, H. J. Graves, M. Jackson, Dr. W. Lane-Petter, Professor A. D. Macdonald, Mr. W. J. Tristram, Dr. B. A. Young. Other Committees and representatives of the Society on other bodies, were re-appointed with the following modifications:—Franco-British Pharmaceutical Commission, Mr. L. G. Matthews in succession to Mr. J. C. Hanbury; Films, Mr. A. Aldington and Professor E. Shotton replace Mr. Grainger and Mr. W. J. Merrick; Veterinary, Dr. Lane-

Petter to join the Committee in place of Dr. J. A. Giles (retired).

Six teachers were appointed to the Education Committee: Professor K. Bullock, Mr. C. Gunn, Professor W. H. Lin nell, Mr. R. V. Lloyd, Mr. F. H. Oliver and Professor J. P. Todd. Four hospital pharmacists were appointed to the Public Services Committee: Messrs. G. Bryan, T. Driscoll, P. J. Fowler, J. Moore.

The Registers

It was reported that in June thirty persons had been registered as "student" making a total of 232 in the current year, against 181 in the first half of 1956. The names of 122 former members had been restored to the Register, and sixty-one addresses had been restored to the Register of Premises. On the recommendation of the Law Committee, the name of one person whose name had been removed from the Register more than ten years ago was restored. Recommendations were approved for the reciprocal registration of one person under Section XIX (14) of the Society's by-laws and of fifteen persons under Section XIX (16). The Law Committee recommended and the Council approved, that the names of three members who had not paid their retention fees for 1957 should be removed from the Register.

The Law Committee's report showed that in May the Society's inspectors and agents visited 918 authorised sellers and 430 drug-store proprietors and similar traders. Five cases of alleged infringements of the Pharmacy Acts were considered, and appropriate action was taken.

Annual Meeting 1958

The Council agreed that the annual meeting of the Society in 1958 should be held on May 14.

ANY BUSINESS QUESTIONS?

A house that formed part of the estate left to my wife on her mother's death has now been let rent-free to one of the family. Am I legally responsible for the property tax upon it?

For the purposes of computing total liability of income tax and surtax, a wife's income is included with her husband's. In most cases the tax under schedule A is collected at the source, that is, from the occupier, who recoups from his next payment of rent the tax paid on behalf of the landlord. If no rent is payable (or if it is less than the net annual value of the property), the tenant has to bear the tax as assessed (or the tax on the excess over the rent). The benefit is known as the tenant's "beneficial occupation," which must be included in any tax return of his total income. The tax thereon is not the concern of the landlord.

We have rented on advantageous terms premises which we intend to use for storage purposes, but the period of let may expire in a few years as it is expected that the site is to be taken over. The building needs some attention, and we shall have to make adaptations to render it suitable for our purposes. Presumably tax relief will be given when we do have to surrender the premises.

So far as any expenditure relates to fixtures and fittings it ranks for tax relief by way of capital allowances, which include annual wear and tear relief and initial allowances on the original expenditure as actually laid out. Structural repairs, too, would be an allowable expense, but improvements to the building or structural alterations would not give rise to any tax relief where the building or structure is in use as, or as part of, a retail shop. The provisions for allowances on capital expenditure on industrial buildings apply to premises in use for the purposes of storage of goods to be used in manufacture or processing; goods that have been manufactured or processed in the course of a trade but are not yet delivered; and goods stored on their arrival into the United Kingdom.

My lease gives me a right of way, to pass and repass with barrows and handcarts over a plot of land behind the shop premises. Disputed two years ago, that right is

apparently now conceded. Meantime a working garage has been erected on the site and the right of way—which has been entirely blocked since September last, runs through it, almost bisecting it. It seems to me that, unless the right of way is effectively walled off from the rest of the garage, all sorts of damages may ensue, e.g., temporary blocking by motor coaches, danger to oneself from the movement of motor coaches and motor vehicles, spilling of oil and garage débris on the right of way, and so on. In effect it looks as if a lawsuit may have to be brought. Is it not reasonable for me to wish to have the right of way completely walled off? What is my position in law? Are there any precedents for or against? The most the builder of the garage would wish to concede would be simply to mark by a white line and leave it open. "To pass and repass with barrows and handcarts"—what would you say would be the minimum breadth?

It appears that there has been an interference with the right of way, which, it is stated, "has been blocked" since September 1956. Action ought to be taken to stop the continuance of that infringement of the right by issuing a writ and claiming an injunction. There cannot be any exactly defined breadth for the right of way. A great deal must depend on the use that has been made of the right of way in the past. Presumably the use will by itself have marked some sort of pathway over the land. There may be a question whether the width should be sufficient to take one line of traffic only or two lines. That is a matter of evidence, depending on the facts. We do not think that the builder can be called upon to wall off the right of way from the rest of the garage. The only way to stop interference with the reasonable enjoyment of the right of way would be by bringing an action for an injunction. In those proceedings, some arrangement might be made between the parties, which would effectively safeguard the proper enjoyment of the right of way, and that arrangement could be embodied in an order by the court. It would not be advisable to have the way marked by a white line since that may curtain what, in fact, may be the present extent of the right. This is obviously a case where a solicitor should be instructed, and action taken in the courts.

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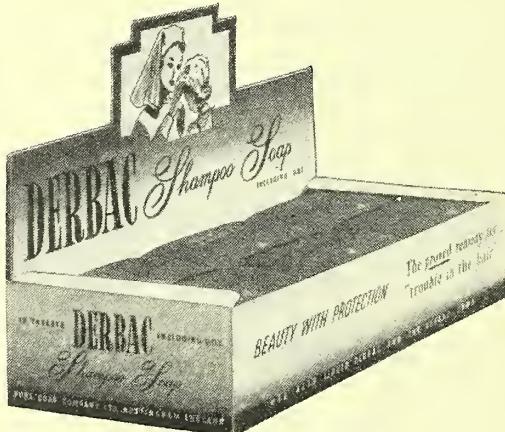
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My twenty-one-year lease ends December 25, 1959. A cinema at the rear is giving up and trying to dispose of its lease, which has about ten years to run. My fear is that my landlord will not be willing to renew, hoping to let the whole block to some multiple concern. To be able to plan for the future, I had thought of applying at once for a new tenancy—offering a bigger rent (present £120), the new tenancy to start at once. I am doubtful if that would be correct now. To wait for the statutory twelve months to apply seems to be running it close if I should have to find other premises.

WE assume that your premises consist of a shop with residential accommodation above, and that it was within the Rent Acts; and that it became decontrolled on July 6 under the new Rent Act. In our view, your protection since that date has resided in Part II of the Landlord and Tenant Act, 1954, and no longer on the Rent Acts. There is nothing to prevent you from approaching your landlord now, and trying to arrange a new tenancy, though we consider that the time is not yet opportune, having regard to the fact that your tenancy has still two and a half years to run: it is, however, for you to decide. We do not ourselves see how your position would be prejudiced if your landlord were to dispose of the whole block, in which presumably your premises are included, to some multiple concern. You could not be refused your new lease except on the ground that your landlord required possession for himself, or in order to carry out substantial alterations. Moreover, no purchaser from your present landlord could raise the plea against you that he required possession for his own occupa-

tion, though he could successfully argue that he required possession to carry out substantial structural alterations. You should approach your landlord in an amicable manner for a new lease about this time next year (earlier if you choose). You can judge by his answer what is the risk that you will be refused a new lease. That should give you ample time in which to look for other premises.

FIFTY YEARS AGO

TRADE IN JUNE

From the C. & D., July 13, 1907

THE import-trade in chemicals this year shows a decided falling-off in quantity and value of bleaching and borax materials, brimstone, coal-products, and muriate of ammonia, and a considerable increase in cream of tartar (£14,587), glycerin (£43,685), saltpetre, soda compounds, sulphuric acid, tartaric acid (£10,268), and unenumerated chemicals. As to exports of British-made chemicals, etc., we observe increases in bleaching-materials, coal-products, copper sulphate (which, again has come back to seven figures in value after a depreciation last year), glycerin (£189,632), chemical manures, muriate of ammonia, painters' colours and materials, soda compounds (£915,155 or about 25 per cent.), and medicines (including quinine) which this year so far show exports valued at £874,443, unenumerated medicines being valued at £851,622, as compared with £734,783 in the corresponding period last year. Last month's export-business in medicines is about £20,000 more than in June 1906.

SHARE MOVEMENTS, April to June

TRADING and inquiry in the industrial department of the London Stock Exchange during the second quarter of 1957 were on a larger scale than for the first quarter, with prices mostly moving to higher levels. Drug trade company shares were mainly in line with the prevailing market pattern.

In the highest-priced share group a good feature was supplied by Reckitt & Colman Holdings £1 which closed about 5s. higher at 49s. 3d. than their 1s. 6d. gain recorded during the first quarter of the year. Firmness coupled with business and interest most days was also evident for Borax (Holdings) 5s. which closed 7s. better at 31s. 3d. after having been dealt in up to the new high level of 33s. 1½d. Elsewhere, Glaxo Laboratories 10s. closed nearly 12s. better at 42s., the new high record price of 42s. 3d. being established in the meantime. In the medium-priced share group, Beecham Group 5s. also closed 5s. 6d. better at 25s., while Albright & Wilson 5s. finished nearly one shilling better at 20s. 10½d., after having changed hands up to the new high level of 23s. 10½d. Boots Pure Drug 5s. finished 7s. 6d. better at 22s. 10½d.; a fairly regular turnover was recorded during the period.

Medium-priced Group

In the medium-priced share group, British Drug Houses 5s. moved against the general trend by closing sixpence lower at 14s. 3d. Cussons, Sons & Co. 2s. were valued slightly lower at 6s. 1½d., thus losing a fraction of their one shilling gain of the previous period, but Sangers 5s. closed 1s. 9d. better at 15s. 6d., after establishing the new high record of 15s. 10½d.

In the lowest-priced share group, Dufay 2s. closed nearly fourpence better at 1s. 6¾d.

In the Preference share section, the firming trend of the first quarter of the year was reversed as most moves were to lower levels. Boots (Eastern) 6 per cent. Cumulative Preferred were priced 2s. down at 18s. 9d. and thus extinguished their gain of the first quarter. Allen & Hanbury's £1, 7 per cent. Preferred Ordinary were valued sevenpence-halfpenny down at 20s.; Glaxo Laboratories 10s., 8 per cent. finished 1s. 6d. down at 12s., Timothy Whites & Taylors £1, 7½ per cent. Preference were 1s. 6d. down at 22s. and Taylors (Cash Chemists) Trust £1, 6 per cent. 1s. 3d. down at 17s. 6d.

NAME OF COMPANY £1 units unless otherwise stated	1956-1957		
	HIGH	LOW	LATEST
Albright & Wilson, 5s. ...	23 10½	16 7½	20 10½
Allen & Hanburys ...	58 9	47 0	50 9
Do. 7% Prefd. Ord. ...	22 0	18 1½	20 0
Ashe Chemicals, 1s. ...	1 8	9	1 2
Aspro-Nicholas, 5s. ...	19 10½	12 7½	13 0
Beecham Group, 5s. ...	25 1½	17 3	25 0
Boots Pure Drug, 5s. ...	23 3	12 6	22 10½
Boots (Eastern) 6% Cum. Prefd. A. ...	21 9	18 9	18 9
Do. (Western) 7% Prefd. Ord. A. ...	23 0	21 3	22 0
Borax (Holdings) Defd. Ord., 5s. ...	33 1½	13 1½	31 3
British Drug Houses, 5s. ...	15 9	11 9	14 3
Cussons, Sons & Co., 2s. ...	7 4½	4 7½	6 1½
Dubarry Perfumery, 1s. ...	1 0	6	9
Dufay, 2s. ...	2 1½	4	1 6½
Evans Medical Supplies, 5s. ...	7 10½	4 7½	6 3
Gee, Arnold M., 1s. ...	2 1½	1 8	2 0
Glaxo Laboratories, 10s. ...	42 3	17 9	42 0
Do. 8% Prefd. Ord., 10s. ...	14 6	11 9	12 0
Greeff Chemical Holdings, 5s. ...	19 3	14 6	17 0
Hampshire, F. W., 5s. ...	8 9	6 6	7 0
Howards & Sons ...	17 0	6 6	15 0
Ilford, 5s. ...	15 7½	11 0	13 9
Monsanto Chemicals, 5s. ...	30 4½	15 10½	18 3
Potter & Clarke, 1s. ...	1 2	6	1 1½
Reckitt & Colman, Holdings ...	49 10½	34 6	49 3
Sangers, 5s. ...	15 10½	12 3	15 6
Savory & Moore, 5s. ...	6 9	5 7½	6 3
Southalls (Birmingham), 5s. ...	9 3	6 0	7 10½
Taylors (Cash Chemists), Lon- don, 6% Cum. Prefd. ...	20 0	16 0	17 6
Do. (Cash Chemists) Trust 6% Cum. Prefd. ...	19 6	17 6	17 6
United Glass Bottle Manufac- turers ...	42 6	31 6	36 3
Whites (Timothy) & Taylors, 5s. ...	17 6	10 1½	17 3
Do. 7½% Prefd. ...	25 10½	21 9	22 0
Yardley & Co., 4s. ...	25 0	16 3	20 7½
Do. A, 4s. ...	24 1½	14 6	19 10½
Do. 4½% Prefd. ...	16 4½	13 9	14 0
Do. 5½% Prefd. ...	19 3	15 6	17 0

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 10: Dull conditions continued to prevail in all markets during the week. Price changes were few and where these were made it reflected a desire to attract business rather than the trend of market values. Trade sources believed that no improvement in buying activity is likely until the end of the holiday season.

Supplies of BUCHU are believed to be all taken up at origin and thus a further strengthening of spot prices may be expected. The other South African CRUDE DRUG, Cape ALOES, was again easier for shipment with buyers said to be still holding off. Low stocks on the spot and no offers for shipment lent price support to PERU BALSAM and Chinese MENTHOL. An offer of Para TONQUIN BEANS was received from origin after an absence of several months. CINCHONA is now available on the spot from one shilling per lb. for druggist's bark. There is only a restricted selection of SENNA now available. SENEGA was firmer for shipment the price quoted working out higher than spot quotations. IPECACUANHA is virtually unobtainable, spot and forward.

Among ESSENTIAL OILS the most important change in an otherwise featureless week, was a hardening in the price of LIME. Short supplies of that oil both here and at origin has coincided with a higher demand arising from the unusually long spell of hot weather. Chinese ANISE was dearer for shipment but spot material did not react.

Pharmaceutical Chemicals

ACETANILIDE.—1-cwt. lots are 2s. 10d. per lb. for crystals and 5-cwt., 2s. 9d. Powder is 1d. per lb. more.

ACETIC ANHYDRIDE.—10-ton lots are quoted at £134 per ton, delivered U.K. in returnable drums; 1-ton lots, £136.

ANEURINE HYDROCHLORIDE.—Price per kilo is £17 7s. 6d. with 10-kilo lots at £17 2s. 6d. per kilo.

ANTIMONY SALTS.—Quotations for POTASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and SODIUM TARTRATE, B.P., 13s. 3d.

ASCORBIC ACID.—Rates per kilo: 1 kilo, £4 18s.; 10 kilos, £4 16s. SODIUM ASCORBATE is offered at the same prices.

ATROPINE.—Rates (per oz.) for 16-oz. lots are: ALKALOID, 23s. 6d.; SULPHATE, 19s. 6d.; METHONITRATE, 26s. 6d.; METHYL BROMIDE, 25s. 6d. Quotations for 1-oz. lots are 1s. 6d. above those rates.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

Alexandria ..	Piastres to £	97 $\frac{1}{4}$ -97 $\frac{1}{2}$
Amsterdam ..	Florins to £	10-56-10-72
*Bombay ..	Shillings to rupee	1/5 $\frac{1}{2}$ -1/6 $\frac{1}{2}$
Brussels ..	Francs to £	138.95-141.05
Copenhagen ..	Kronor to £	19.19 $\frac{1}{2}$ -19.48 $\frac{1}{2}$
Dutch West Indies ..	Florins to £	5-26-5-29
*Hong Kong ..	Shillings to \$	1/2 $\frac{1}{2}$ -1/2 $\frac{1}{2}$
*Karachi ..	Shillings to rupee	1/5 $\frac{1}{2}$ -1/6 $\frac{1}{2}$
Lisbon	Escudos to £	79.90-81.10
*Montreal ..	Dollars to £	2-65 $\frac{1}{2}$ -2-66 $\frac{1}{2}$
New York ..	Dollars to £	2.78-2.82
Oslo	Kronor to £	19.85-20.15
Paris	Francs to £	972.6-987.3
Stockholm ..	Kronor to £	14.37 $\frac{1}{2}$ -14.59 $\frac{1}{2}$
*Singapore ..	Shillings to \$	2/3 $\frac{1}{2}$ -2/4
Zurich	Francs to £	12.15 $\frac{1}{2}$ -12.33 $\frac{1}{2}$

*Free market rates; remainder Bank of England. Bank rate: 5 per cent. from February 7.

CALCIFEROL.—B.P. is 3s. 2d. per gm. for 2-kilo lots.

CALCIUM GLUCONATE.—Quantities of 3-cwt. and upwards are quoted at 3s. 9d. per lb.; 1-cwt. to 2-cwt., 3s. 10d.

CALCIUM PANTOTHENATE.—Price per kilo is £22 17s. 6d.

CALCIUM SUCCINATE.—Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CARBROMAL.—B.P.C. is 21s. per lb. delivered in returnable packing.

CHLORAL HYDRATE.—In 1-cwt. lots the price is about 4s. 3d. per lb.

CREAM OF TARTAR.—Rates for the home trade are now as follows:—1 ton lots, 23s. per cwt.; 10-cwt., 23s.; 5-9-cwt., 23s.; 24-cwt., 23s.; 1-cwt., 23s.

CYANOCOBALAMIN.—Less than 10 gm. lots are £87 10s. per gm.

ERGOMETRINE.—For 20-gm. lots the price of the MALEATE, B.P. is £17 10s. per gm. and the TARTRATE, £16 5s. per gm.

FOLIC ACID.—B.P. and U.S.P. is offered on the spot at about 4s. 8d. per gm. in 1-kilo lots.

GLYCERIN.—Rates for pharmaceutically pure are as follows:—

Annual purchases or spot lots of	Per cwt.	1-cwt. and under 5-cwt.		5-cwt. and under 1-ton		1 ton and under 5-tons		5 tons and under 25 tons	
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
TINS									
14-lb.	241 0	236 6	232 6	228 0	225 6				
28-lb.	239 0	234 6	230 6	226 0	223 6				
56-lb.	235 0	230 6	226 0	222 0	219 6				
DRUMS									
1-cwt.	—	214 6	210 6	206 0	204 6				
21-cwt.	—	211 6	208 0	203 6	202 0				
5-cwt.	—	—	207 6	203 0	201 6				
10-cwt.	—	—	206 6	202 6	201 0				

For 25 tons and upwards the price is from 200s. to 225s. 6d. as to containers. Bulk deliveries in tank wagons from 197s. 6d. to 198s. 6d. Pale straw industrial glycerin, s.g. 1.260, is 5s. per cwt. less than the above.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C. 20 per cent., 5s. 9d.; CALCIUM, soluble B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MANGANESE, soluble, B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

HEXAMINE.—B.P. is 1s. 11 $\frac{1}{2}$ d. per lb. for 1-ton lots, delivered in 1-cwt. kegs (1s. 11d. in paper bags). Technical is threepence per lb. under those rates.

HOMATROPINE.—Current rates (per oz.) for 16-oz. lots are now: ALKALOID, 28s. 6d.; HYDROBROMIDE, 23s. 6d.; HYDROCHLORIDE, 27s. 6d.; METHYL BROMIDE, 24s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROGEN PEROXIDE.—Carboy lots of 20 vols. are 5s. per gall. The 35 per cent. (by weight) is 158s. per cwt. in 1-cwt. carboys.

HYDROQUINONE.—Quotations for 1-cwt. lots are 10s. 6d. per lb.

ISOPRENALINE SULPHATE.—B.P. is 1s. 3d. per gm. for 1,000-gm. lots and 1s. 9d. per gm. for 100-gm. lots.

LACTIC ACID.—B.P. is 4s. 3d. per lb. for 12-winchester lots and 3s. 10d. for 5-cwt. lots.

MAGNESIUM TRISILICATE.—In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9 $\frac{1}{2}$ d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

MANDELIC ACID.—In 1-cwt. lots the price is 12s. 6d. per lb. with the CALCIUM SALT also 12s. 6d. SODIUM MANDELATE is 13s. and AMMONIUM MANDELATE 50 per cent. solution, 7s. 6d.

MENAPHTHONE.—B.P. is £11 per kilo; ACETOMENAPHTHONE, B.P., £11; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.) £15 per kilo.

NICOTINAMIDE.—Prices per kilo are now: 1 kilo, 92s. 6d.; 10 kilos, 90s.; 50 kilos, 88s. 6d.

NICOTINIC ACID.—Prices per kilo are 57s. 6d. for 1-kilo and 53s. 6d. for 50-kilo lots.

PARALDEHYDE.—B.P. in 12-winchester lots is 2s. 7d. per lb.; 10-gall. carboy, 2s. 2d., and 5 carboys, 2s. Stabilised in 5-gall. drum lots, 166s. per cwt.; technical, 149s. per cwt.

PHENOL.—Basic price for ice crystals in drums is 1s. 4 $\frac{1}{2}$ d. per lb. (under 1-ton lots, 1s. 7 $\frac{1}{2}$ d.). Detached crystals, 2d. per lb. above and LIQUID, B.P., 4d. per lb. below the foregoing basic prices.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 11s. per lb.

PHENYTOIN SODIUM.—B.P. is 23s. per lb. in 1-cwt. lots.

PIPERAZINE.—CITRATE is 47s. 6d. per lb. and ADIPATE, 42s.

POTASSIUM SULPHURATED.—Lump, B.P.C., is 2s. 4d. per lb. in 1-cwt. lots.

POTASSIUM ACETATE.—B.P. is 3s. 3d. per lb. in 1-cwt. lots.

POTASSIUM BICARBONATE.—B.P. powder is 110s. per cwt. for 1-4 cwt. lots and 105s. per cwt. for 5-cwt. and over.

POTASSIUM CHLORIDE.—In 1-cwt. lots B.P., is 1s. 6d. per lb.

POTASSIUM NITRATE.—Pharmacopæcial quality is 100s. per cwt. (crystal or powder) in 1-cwt. lots.

PYRIDOXINE.—Manufacturers' rate for 1 kilo is £121 per kilo; 10 kilos, £120 10s.

QUINIDINE.—Prices are as follows:—

Home Trade	500-oz. or more		100-400-oz.	
	per oz.	s. d.	per oz.	s. d.
Q.QUINIDINE	—	—	—	—
ALKALOID ..	7	6	7	8
GLUCONATE ..	8	10 $\frac{1}{2}$	9	1
HYDROBROMIDE ..	6	2	6	4
HYDROCHLORIDE ..	6	4	6	6
SULPHATE ..	5	8	5	9 $\frac{1}{2}$
HYDROCHLORIDE ..	10	7	10	10
GLUCONATE ..	8	1	8	4

For export quinidine alkaloid (crystals) ranges from £11 17s. 3d. to £12 2s. 4d. per kilo and sulphate from £9 to £9 5s. 1d.

QUININE.—Makers' nominal rates (per oz.) for up to 100-oz. lots are:—ALKALOID, 3s. 10d.; ACETYL SALICYLATE, 5s. 4d.; BISULPHITE and SULPHATE, B.P., 1932, 2s. 8d.; SULPHATE, B.P., 1948, 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCEROPHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE, 3s. 11d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s.; TANNATE, 2s. 7d.

RIBOFLAVINE. — Price (per kilo) is £18 10s. for 1-kilo and £18 5s. for 10-kilo lots.

SALICIN. — Quoted at 18s. 6d. per oz.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28-lb., 14s. 6d.

TEREBINTH. — B.P. is 2s. 3d. per lb.

TERPINEOL. — Prices of B.P. grade are from 3s. to 3s. 6d. per lb., as to quantity.

TERPIN HYDRATE. — Prices are from 6s. per lb., upwards as to quantity.

THEOBROMINE. — ALKALOID is from 25s. 6d. to 26s. 6d. per lb. and SODIUM SALICYLATE, 22s.

THEOPHYLLINE. — 1-cwt. lots of ALKALOID, ANHYDROUS, are quoted at 18s.; AMINOPHYLLINE is now 18s. 6d. per lb.

VITAMIN A. — Synthetic. Supplied in strengths of 200,000 international units per gm, the price is 11½d. per million i.u. Natural is 1s. 4d. per million units.

VITAMIN D₂. — In oil, 2 million units per gm, the price is 2d. per million international units. Crystalline see under calciferol. D₃, 2d. per million units in oil; crystalline, 17s. per gm.

VITAMIN E (synthetic). — TOCOPHERYL ACETATE, B.P.C., 10 gm, to 100 gm., 1s. 2d. per gm.; 100 gm, to 1 kilo, 1s. per gm.; 1 kilo and under 10 kilos, £45 per kilo; 10 kilos, £44 15s. per kilo.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 3s. 3d. per lb., duty paid.

AGAR. — *Kobé* is 12s. 4½d. per lb., duty paid. Shipment, 10s. 6d., c.i.f.

ALOES. — Cape prime for shipment is 28s. per cwt., c.i.f.

ANISEED (STAR). — Chinese is 160s. per cwt. on the spot.

ANTIMONY. — English 99.6 per cent. is £222 10s.; 99 per cent., £210 per ton.

BALSAMS. — Quotations (per lb.) are: — **CANADA.** — Spot value 28s.; new-crop for July shipment, 26s. c.i.f. **COPAIBA.** Para is from 7s. 9d. to 11s., duty paid. **PERU.** 10s., duty paid (no c.i.f. offers). **TOLU** (genuine as imported), 27s. 6d.; B.P., 17s. 6d., spot.

BNZOIN. — Sumatra No. 1 block on the spot is £26 (£23 5s., c.i.f.), and No. 2 £21 10s. Almonds, 18s. per lb., c.i.f.

BUCHU. — Spot rounds are from 7s. 3d. per lb., shipment: supplies reported cleared.

CARDAMOMS. — Aleppy greens on the spot are 15s. 3d. per lb. and shipment, 14s. 3d., c.i.f. No. 1 seed, 21s. per lb.

CASCARA SAGRADA. — Spot 1956 processed peel is 320s. per cwt., duty paid. New-crop, July-August, 245s., c.i.f., quoted, with whole at 249s., c.i.f.

CASSIA BARK. — Whole on the spot is now quoted at 135s. per cwt., in bond, and broken, 115s. in bond. For shipment broken No. 1 is quoted at 128s. 6d., c.i.f., and whole at 135s., c.i.f.

CASSIA FRUIT — *C. fistula* is offered at 87s. 6d. per cwt. on the spot.

CHERRY BARK. — Thin natural is from 1s. 10½d. per lb., duty paid, and rossed, 2s. on the spot.

CHILLIES. — Mombasa on the spot are 245s. per cwt.; shipment, 210s., c.i.f.

CINCHONA. — Parcels of druggists' bark *Succirubra* hybrid, total alkaloids 6.51-7.23 per cent. from 1s. per lb. on the spot.

CINNAMON. — Ceylon for shipment (c.i.f.) per lb., OOOO, 8s. 2d.; OOO, 7s. 11d.; OO, 7s. 9d.; seconds, 6s. 5d.; featherings, 2s. 7d.; quillings, 4s. 5d.; chips, 1s.

CLOVES. — Zanzibar on the spot are quoted at 3s. 6d. per lb. Shipment, 3s. 2½d., c.i.f.

COCHINEAL. — Silver-grey Peruvian, 12s. 6d. per lb. Canary Isles black-brilliant, 28s.

COCILLANA. — Bark is 1s. 11d. per lb. on the spot.

COLOCYNTH PULP. — Spot, 4s. 4d. per lb.; shipment, 3s. 6d., c.i.f.

DIGITALIS LEAF. — *Purpurea* is offered at 1s. 3d. per lb., c.i.f.

ERGOT. — Portuguese is 6s. per lb., c.i.f., for prompt shipment and also 6s. spot. American, 7s. 3d., c.i.f. Bulgarian, 9s. 6d.; Hungarian defatted, 13s. 6d. spot.

GENTIAN. — Spot: French quoted at 185s. c.i.f. and 200s. on the spot; Spanish, 165s. *Jugo-Slavian*, 155s. to 165s. as to seller.

GINGER. — African on the spot is 155s. per cwt. and July-August shipment, 127s. 6d., c.i.f. Jamaican No. 3 on the spot is offered at 58s. and shipment at 560s. c.i.f. Cochin spot, 130s.; shipment, 110s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts are 142s. 6d. per cwt. on the spot; afloat, 128s., c.i.f.

HONEY. — Quiet, Australian light-amber is 120s. to 125s. and medium-amber, 112s. 6d. to 115s. Argentine, 125s. to 130s.; Jamaican, 145s. to 150s., all per cwt., on the spot.

IPECACUANHA. — Panamanian on the spot 54s. per lb. ex wharf. Colombian for shipment is 62s. 6d., c.i.f.

JALAP ROOT. — Mexican is cleared on the spot, no forward offers.

KARAYA. — No. 1 gum on the spot is now quoted at 245s. per cwt. and No. 2 at 205s.

KOLA NUTS. — Jamaican are offered at about 8d. per lb., spot, and 6½d., c.i.f. African, 6½d. spot and 4½d., c.i.f.

LANOLIN. — ANHYDROUS, B.P. is from 175s. to 190s. per cwt. and HYDROUS, B.P., 150s. to 170s.

LOBELIA HERB. — Spot offers are from 5s. 9d. to 6s. 6d. per lb.

MACE. — Whole on the spot is from 22s. 6d. per lb.

MENTHOL. — Chinese. Spot is 53s. 3d. per lb., duty paid; August-September shipment, 47s. 3d. Brazilian, spot, 42s. duty paid; shipment, 40s., c.i.f. Formosan, 44s. 6d., c.i.f.

MERCURY. — Price per flask (76-lb.) is £90 on the spot.

NUTMEGS. — West Indian 80's not quoted; sound unassorted, for shipment 15s. 9d. per lb.; defectives 10s. f.o.b.

PAPAIN. — Scarce, East African grade 2 is 28s. per lb., spot; No. 1 unobtainable. Ceylon white, 26s., c.i.f.

PEPPER. — White Sarawak is steady at 2s. 4½d. per lb. on the spot, with July shipment at 2s. 3½d., c.i.f. Black Sarawak, spot, 1s. 9d. per lb., July shipment, 1s. 7½d., c.i.f. Black Malabar unchanged at 210s. per cwt. on the spot; prompt shipment, 202s. 6d., c.i.f.

PODOPHYLLUM. — *Emodi* is 165s. per cwt., c.i.f. *Peltatum*, 4s. per lb. spot, and 430s. per cwt., c.i.f., for shipment.

RAUWOLFIA. — *Serpentina* is 4s. 3d. per lb., c.i.f. and *vomitoria*, 2s. 3d., c.i.f.

RHUBARB. — Quotations for Chinese are from 6s. 6d. to 9s. 3d. per lb., as to quality.

SASSAFRAS. — Selected bark is 5s. per lb.

SEEDS. — (Per cwt.). **ANISE.** — Cyprian, 165s., spot; Bulgarian, 145s., duty paid.

CARAWAY. — Dutch, 100s. on spot, new-crop for July-August shipment, 135s., c.i.f.

CORIANDER. — Spot: Moroccan, 90s.; Rumanian, 65s.; Polish, 57s. 6d., all duty paid. Moroccan for July-August shipment, 62s. 6d., c.i.f. **CUMIN.** — Firm. Spot: Cyprian, 180s.; Iranian, 175s.,

duty paid. **DILL.** — Indian unchanged at 65s., spot. **FENNEL.** — Indian, 125s., spot. **FENUGREEK.** — Indian 67s. 6d.; Moroccan, 65s., duty paid. **MUSTARD.** — English, 60s. to 75s., according to quality.

SENEGA. — Spot is 18s. per lb. with shippers asking 18s., c.i.f.

Senna. — *Tinnevelly* LEAVES, prime No. 1, 5s. 5d. per lb., f.a.q., No. 3, 10d.; PODS, manufacturing, 1s. 3d. Special green, 2s. spot; new-crop f.a.q., 1s. 1d., c.i.f. *Alexandrian* pods available from 1s. 6d. to 3s. 6d. per lb., with hand-picked at up to 6s.

HELLAC. — F.O.T.N. 210s. per cwt.; F.O. No. 1, 230s.; fine orange, 250s. to 310s.

SLIPPERY ELM. — Grinding quality bark is 2s. 6d. per lb.

SQUILL. — White is offered on the spot at 57s. to 62s. 6d.

STRAMONIUM. — Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS. — *Kombé* on the spot is 7s. 9d. per lb. for the 100 per cent.; *Gratus* is unobtainable on the spot.

STYRAX. — Scarce on the spot. Price nominally 8s. 9d. per lb. No shipment offers.

TONQUIN BEANS. — Para on the spot are cleared; shipment offered at 10s. 6d. per lb., c.i.f.

TRAGACANTH. — No. 1 ribbon is £165 to £170 per cwt., No. 2, £145 to £150.

TURMERIC. — Madras finger on the spot is 65s.

Essential and Expressed Oils

ALMOND. — British oil is 11s. per lb.; imported, 10s.

AMBER. — Rectified on the spot is 1s. 6d. per lb.

ANISE. — Chinese, 11s. 9d. per lb., spot; shipment, 12s. 3d., c.i.f.

BAY. — West Indian is 12s. 6d. per lb. on the spot.

BERGAMOT. — Spot supplies are from 73s. per lb.

BIRCH TAR. — Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE. — Brazilian is 25s. 9d. per lb. on the spot and 25s., c.i.f.

CADE. — Spanish is 3s. 6d. per lb. for drum lots.

CAJUPUT. — Spot supplies are from 10s. 6d. per lb.

CALAMUS. — Spot quotations are 62s. 6d. per lb.

CAMPHOR, WHITE. — Chinese is 2s. 4½d. per lb., duty paid.

CANANGA. — Spot is from 52s. to 56s. per lb.

CARAWAY. — English-distilled is offered at 55s. and imported from 28s. to 29. per lb., duty paid.

CARDAMOM. — Price per lb. is from 350s. for English-distilled and from 267s. 6d. to 297s. 6d. for imported.

CASSIA. — Spot is offered at about 13s. 4½d. per lb. with shipment, 13s. c.i.f.

CASTOR. — Minimum charge for home-produced B.P. oil on the spot is £190 per ton naked ex mill.

CEDARWOOD. — 1-cwt. lots of American are 7s. per lb., and Kenya, 4s. 6d.

CELERY SEED. — Oil is 100s. per lb. for bulk lots.

CHENOPODIUM. — Spot value is now 35s. per lb. for original containers.

CINNAMON. — From quillings, best English-distilled is 50s. per oz. other B.P. oils from 165s. per lb. Ceylon leaf, crude, 14s. 6d. and rectified, 25s. per lb., spot.

CITRONELLA. — Ceylon, spot, 5s. 2d.; July-August shipment, 4s. 7d., c.i.f. Formosan, July-August shipment, 6s. 9d. September-October, 6s. 6d., c.i.f., and afloat, 6s. 10½d.

CLOVE.—Madagascar leaf is 8s. per lb., duty paid and 6s. 10d. c.i.f. for shipment. Rectified B.P., 17s. 6d. 87-88 per cent. 10s. 6d. Distilled bud oil, English, from 28s. 9d. to 35s. as to quantity.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—B.P. oil is quoted from 77s. 6d. to 82s. 6d. per lb.

CUBEBS.—Spot supplies are offered at 45s. per lb.

CUMIN.—Quotations for English-distilled oil are about 102s. per lb. and imported 57s. 6d.

DILL.—B.P. English-distilled oil prices are nominal; imported from 36s. per lb.

EUCALYPTUS.—70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80 to 85 per cent., 5s. 6d.

GINGERGRASS.—Spot offers are from 27s. 6d. per lb.

HYATA.—Formosan, minimum 90 per cent. saffrole, 4s. 10 $\frac{1}{2}$ d. per lb., spot.

JUNIPER BERRY.—B.P.C. oil is from 12s. 6d. per lb. and Jugo-Slavian, 14s. on the spot. English-distilled is 155s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot is from 13s. to 15s. per lb. for original drums.

LAVENDER.—French oil is from 55s. to 80s. per lb. as to make.

LAVENDER SPIKE.—Spanish is offered from 12s. 9d. to 14s. per lb. on the spot.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 23s. and 35s. per lb. Californian, 28s. 6d. to 36s. 4d. c.i.f., as to quality, subject to licence.

LEMONGRASS.—Spot is 8s. 3d. per lb., and June-July shipment, 8s., c.i.f.

LIME.—West Indian distilled is 48s. per lb. on the spot. Supplies short.

NUTMEG.—Imported B.P. oil is about 105s. per lb. English-distilled, 180s. nominal.

OLIVE.—Spanish is 27s. and French 26s. 6d. per gall. on the spot, ex-wharf. for B.P. quality.

ORANGE.—Spot quotations of sweet oil include Floridian at 4s. per lb.; Californian, 9s.; West Indian, 7s. 6d.; South African, 7s.; West African, 15s. 6d. For shipment, proprietary brand Californian cold-pressed U.S.P., 13s. 2d. c.i.f. Terpenes is 200s. per lb., spot; and bitter, 21s. 6d. per lb.

PETITGRAIN.—Paraguay is offered at 23s. 6d. per lb.

SANDALWOOD.—Mysore is 85s. per lb. for lots of about 2-cwt.

SASSAFRAS.—Brazilian is 3s. 9d. per lb., duty paid.

SPEARMINT.—Offers of U.S.P. grade are from 29s. per lb. on the spot.

TANGERINE.—Spot supplies offered from 23s. to 36s. per lb. as to quality.

THYME.—Spot is from 10s. per lb., according to content.

VETIVERT.—Spot is currently at about 95s. per lb.

UNITED STATES REPORT

NEW YORK, JULY 9: Replacements for CHAMOMILE FLOWERS, Hungarian type, recently advanced to \$1.25/1.30 a lb., in the primary centre and remained difficult to obtain despite buyers' willingness to pay the higher rates. JALAP was on a firmer price level at \$1.15 per lb., up ten cents. While some observers claimed to see an easing tendency in ESSENTIAL OILS, no important changes in price quotations were actually reported.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 19

For disinfectants, deodorants and preparations for purifying air (5)

AIR COMMAND, 761,063, by Ulter (Bradford), Ltd., Wibsey, Bradford.

For pharmaceutical products for human use (5)
RELAXIPRIN, 762,327, by Rona Laboratories, Ltd., London, W.C.2.

For medicated beverages (5)

FRU-VITA, 762,334, by Optrex, Ltd., Greenford, Middlesex.

For pharmaceutical preparations and substances (5)
METAD, 762,487, by Ayrton, Saunders & Co., Ltd., Liverpool. MEDIHALER-PHEN, 762,693, by Riker Laboratories, Inc., Los Angeles, California, U.S.A.

For all goods (5)

MECLOTIN, 763,333, by The British Drug Houses, Ltd., London, N.I. PETHILORFAN, 764,019, by Roche Products, Ltd., Welwyn Garden City, Herts. BENVIL, 764,181, by C. L. Bencard, Ltd., London, N.W.10.

For anaesthetic and analgesic products for human use (5)

RONACAIN, 763,743, by Rona Laboratories, Ltd., London, W.C.2.

For soap holders (21)

MAGNESOAP, 763,614, by Contemporary Products, London, S.W.12.

For brushes and combs all being gilded (21)

SUN GILT, 763,760, by David Strasburger, Ltd., London, W.I.

For preparations of milk, malt and eggs flavoured with cocoa, the malt predominating, for use in making food beverages (30)

Device, 762,930, by A. Wander, Ltd., London, W.1.

From the "Trade Marks Journal," June 26

For chemical products used in industry and science; synthetic resins; plastics in the form of powders, pastes, liquids, emulsions, dispersions, pellets and granulates for industrial use; and adhesive substances (1)

ELASTOSIL, 745,789, by Wacker-Chemie, G.m.b.H., Munich, Germany.

For chemical and sensitised materials used in industry, science and photography (1)

OCE, 761,586, by Chemische Fabrik L. Van Der Grinten, N.V., Venlo, Holland.

For all goods (1)

NEO-CEBITATE, 762,018, by Merck & Co., Inc., Rahway, New Jersey, U.S.A. PERMAFLON, 763,564, by Permal, Ltd., Gloucester.

For chemical products used in industry and science (1)

Device, 762,958, by L. Light & Co., Ltd., Colnbrook, Bucks.

For sensitised photographic papers (1)

BROMILFA, 763,982, by Ilford, Ltd., Essex.

For soaps, perfumes, essential oils, cosmetics, non-medicated toilet preparations, hair lotions and dentifrices (3)

COLOUR TEMPERATURE, 759,356, by Napper, Stinton & Woolley, Ltd., London, W.I. VIBRUSH, 762,783, by Robert Amon, London, E.C.4. NOCAL, 764,624, by A. J. Siris Products, Ltd., Chester, Durham.

For preparations for the hair (3)

VIBRO, 761,026, by Robert Amon, London, E.C.4.

For preparations for laundry use; bleaching, cleaning and polishing preparations; soaps; cosmetic preparations, non-medicated toilet preparations; etc. (3)

Device, 762,260, by Rheinische Schmigel Werke Beuel-Bonn, G.m.b.H., Beuel-by-Bonn, Germany.

For all goods (3)

TRA-LA, 764,325, by Colgate-Palmolive Co., New York, U.S.A.

For all goods (5)

PROSCALUNE, 759,977, by C. H. Boehringer Sohn, Ingelheim on Rhine, Germany. GRAYCIN, 762,338, by Glaxo Laboratories, Ltd., Greenford, Middlesex. CODELSOL, 762,721,

by Merck & Co., Inc., Rahway, New Jersey, U.S.A. ENERIL, ENLON, 764,484-85, by A. & G. Nicholas, Ltd., Slough, Bucks. AERODRIN, 764,118, by the Wellcome Foundation, Ltd., London, N.W.1.

For pharmaceutical preparations for restoring the normal amount of propridin in the blood (5)
PROPERDAL, 760,527, by Laboratoires Millot, Paris, France.

For medicinal compounds in tablet form for the treatment of gastric hyperacidity (5)

TITRALEC, 760,529, by Schenley Laboratories, Inc., New York, U.S.A.

For pharmaceutical preparations and substances (5)

RIBEX, SOMNASED, 761,918-19, by Duncan, Flockhart & Co., Ltd., Edinburgh, 11. GRESUTON, 764,884, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For pharmaceutical preparations containing calamine, witch hazel and menthol (5)

CALAZOL, 761,732, by Boots Pure Drug Co., Ltd., Nottingham.

For pharmaceutical and sanitary substances; medical and surgical plasters, materials prepared for bandaging; insecticides; preparations for killing weeds; and disinfectants (5)

DILOCYD, 762,116, by Chemisches Laboratorium am Heiligengeistfeld, G.m.b.H., Hamburg, Germany.

For preparations for killing animals (5)

TRINAVEN, 763,130, by C. J. Hewlett & Son, Ltd., Watford, Herts.

For pharmaceutical preparations being gel-forming substances (5)

DIMAGEL, 764,092, by Lewis Laboratories, Ltd., Leeds.

For veterinary products and preparations (5)

CONVAC, 764,273, by Evans Medical Supplies, Ltd., Liverpool. DYNAFAC, 764,910, by Armour & Co., Chicago, Illinois, U.S.A.

For yeasts prepared for pharmaceutical purposes (5)

RESMUL, 764,286, by Donald Arthur Edward White, Hull.

For germicides and pesticides (5)

FUMOVAP, 764,335, by Aerovap Holdings, Ltd., London, S.W.1.

For pharmaceutical preparations for the reduction of pre-menstrual tension (5)

MENSALGIN, 764,487, by Ward, Cassenne, Ltd., London, W.1.

For medicated foodstuffs for invalids and infants (5)

MINAFEN, 764,519, by Trufood, Ltd., Nantwich, Cheshire.

For physical apparatus and chemical apparatus, all for scientific purposes; optical apparatus; etc. (9)

TAXONA, 754,513, by Veb Zeiss Ikon Dresden, Dresden, Germany.

For photographic printing apparatus; etc. (5)

Device with word HANOVIA, 761,227, by Engelhard Industries, Ltd., London, W.C.1.

For electric infra-red heating apparatus, electric ultra-violet, light apparatus, etc. (10)

Device with word HANOVIA, 761,228, by Engelhard Industries, Ltd., London, W.C.1.

From the "Trade Marks Journal," July 3

For chemical products for use in industry (1)

CARIFLEX, 762,612, by the Shell Petroleum Co., Ltd., London, E.C.3.

For toilet preparations (not medicated) for use in darkening the eyelashes and eyebrows (3)

LASHCARA, 750,857, by René Morris Preparations, Sydney, New South Wales, Australia.

For soap other than perfumed soap (3)

TRAFFORD BAR, 753,454, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For soap flakes (3)

SNOWHITE, 757,317, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For all goods (3)

Device, 759,586, by Institut Jeanne Gatineau, S.A., Paris, France.

For perfumes, *eau de Cologne*, toilet powder and essential oils; and flower extracts for use as a base in perfumes (3)

EVEREVE, 759,631, by Rigaud, Paris, France.

For non-medicated toilet preparations (3)

FREECHE, B759,706, by Boots Pure Drug Co., Ltd., Nottingham.

For non-medicated toilet preparations, cosmetic preparations, brilliantine, hair lotions, toilet shampoos, dentifrices, soaps, perfumes, essential oils and toilet articles (3)

Device of words COTY MAGIC BLOOM, 761,497, by Coty (England), Ltd., London, W.1.

For perfumes, non-medicated toilet preparations, cosmetic preparations and preparations for the hair (3)

APELIUM, 763,391, by Société Monsavon l'Oreal, Paris, France.

For cleaning preparations (3)

METROSOL, 761,654, by South Eastern Gas Board, Croydon, Surrey.

For cleaning and polishing preparations (3)

Device with word CASINO, 763,394, by Blyth & Platt, Ltd., Watford, Herts, KLENZMAR, 763,807, by Petmar Industries, Ltd., Batley, Yorks.

For preparations for cleaning and polishing windows (3)

WINDOSIL, 763,295, by Ronuk, Ltd., Portslade, Sussex.

For preparations and substances for laundry use; cleaning, polishing, scouring and abrasive preparations; and soaps, perfumes, non-medicated toilet preparations, essential oils, cosmetics, hair lotions and dentifrices (3)

Device of word LAVOSYNTEX, 763,594, by Rumianca Societa, P.A., Turin, Italy.

For detergents (not for use in industrial or manufacturing processes) (3)

MONASAN, 764,073, by Commercial Supplies Syndicate, Ltd., Derby.

For bandages (5)

ICHTHOPASTE, 753,623, by T. J. Smith & Nephew, Ltd., Hull.

For pharmaceutical and veterinary preparations (5)

MAGNACORT, 759,924, by Chas. Pfizer & Co., Inc., Brooklyn, New York, U.S.A.

For pharmaceutical preparations and substances for human and veterinary use (5)

SUBROGEN, 765,161, by Organon Laboratories, Ltd., London, W.C.2.

For all goods (5)

PREDASIN, 761,219, by Glaxo Laboratories, Ltd., Greenford, Middlesex. ECONO-MIST, 763,234, by Rexall Drug Co., Ltd., Loughborough, Leics. AVERTIGON, 763,332, by The British Drug Houses, Ltd., London, N.1. AMARGYL, 765,137, by May & Baker, Ltd., Dagenham, Essex.

For antibiotic preparations (5)

ADREMYCIN, 762,013, by Organon Laboratories, Ltd., London, W.C.2.

For medicated preparations for the scalp (5)

APELIUM, 763,392, by Société Monsavon l'Oreal, Paris, France.

For pharmaceutical preparations and products (5)

ALUDROX CO, 763,469, by John Wyeth & Bro., Ltd., London, N.16.

For pharmaceutical preparations for the treatment of mouth ulcers (5)

MULCETS, 764,024, by Rexall Drug Co., Ltd., Loughborough, Leics.

For preparations for killing weeds (5)

ATLAZIN, 764,302, by Chipman Chemical Co., Ltd., London, S.W.1.

For anaesthetics (5)

TOPOSPRAY, 765,089, by Procol Manufacturing Co., Ltd., Toronto, Ontario, Canada.

For physical apparatus and chemical apparatus, all for scientific purposes, etc. (9)

PRESTOR, 754,511, by Veb Zeiss Ikon Dresden, Dresden, Germany.

For flashguns for photographic purposes (9)

DIALUX, DUOLUX, 762,412-13, by Julius Joseph Silber, London, W.C.1.

For non-medicated tissue paper handkerchiefs (16)

Device with words POND'S TISSUES, 763,323, by Chesebrough-Pond's, Ltd., Greenford, Middlesex.

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

Sunday, July 21

LONDON: Air-wick, Optrex eye lotion. Petal Dew cream deodorant, Alka-Seltzer.

MIDLAND: 5-Day deodorant. Brylcreem. Amami wavyset. Nivea. Elastoplast. Steradent. Sanpic. Angel Face. Phenisc. Opas tablets. Norit tablets. Linc-o-lin beer shampoo. Beecham's powders. Optone eye drops.

NORTH: Nivea. Elastoplast. Steradent. Norit tablets. Sure Shield fruit-flavoured laxatives. Linc-o-lin beer shampoo. Beecham's powders. 5-Day deodorant. Brylcreem. Amami wavyset. Optone eye drops.

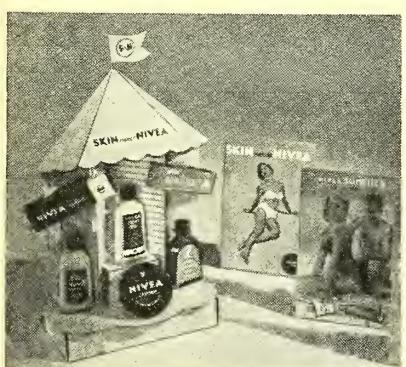
ALL: Toni home permanent. Prom home permanent. Hi-Fi lipstick. Sunsilk shampoos.

Monday, July 22

LONDON: Air-wick, Anadin, Elastoplast. Nivea. Dettol. Iron Jelloids. Drene. Opas tablets. Andrews liver salts. Beecham's powders. 5-Day deodorant. Yeast-Vite. Val-Pak.

MIDLAND: Angel Face. Phyllosan. 5-Day deodorant.

NORTH: Air-wick. Cephos. Pepsodent. Germolene. Beecham's powders. Phyllosan. Sunsilk shampoos. Yeast-Vite.



DISPLAY MATERIAL: Among summer show material available from Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts, are the canopy stand for Nivea products at left, and the showcards at right.

ALL: Phenisc. Gleem tooth-paste. Brylcreem. Amami wavyset.

Tuesday, July 23

LONDON: Elastoplast. Nivea. Flit insecticides. Phenisc. Optrex eye lotion. Germolene. Brylcreem. Ibcoll.

At left, CROWNER: Bottle crowner now available from Jeyes-Ibco Sales, Ltd., River Road, Barking, Essex, through representative or direct.

At right, DISPLAY OUTER: Six "puff" tubes of Johnson's foot powder (see C. & D., April 13, p. 399) in display outer now obtainable from Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks.

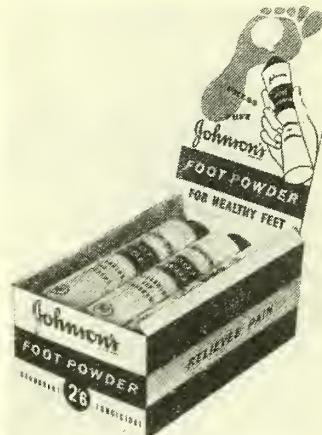


ALL: Gleem tooth-paste. Flatter-Glo.

Friday, July 26

LONDON: Air-wick.

MIDLAND: Nivea. Elastoplast. Flit insecticide. Angel Face. Band-Aid. Sunsilk shampoos.



MIDLAND: Pepsodent. Gleem tooth-paste. Band-Aid. Germolene. Amami wavyset. Yeast-Vite. Val-Pak.

NORTH: Air-wick. Delsay toilet tissue. Gleem toothpaste. Zoflora. Phyllosan. Amami wavyset. Yeast-Vite.

Wednesday, July 24

LONDON: Elastoplast. Nivea. Drene. 5-Day deodorant. Amami wavyset. Miraglo.

MIDLAND: Pepsodent. Angel Face. Phyllosan. Sunsilk shampoos.

NORTH: Delsay toilet tissue. Cephos. Drene. Phyllosan. Amami wavyset.

ALL: Gleem tooth-paste. Yeast-Vite.

Thursday, July 25

LONDON: Flit insecticide. Dettol. Pepsodent. Phenisc. Beecham's powders. Brylcreem.

MIDLAND: Air-wick. Immac. Nivea. Elastoplast. Robinson's orange "smash." Andrews liver salts. Germolene. Sunsilk shampoos. Brylcreem. Optone eye drops. Yeast-Vite.

NORTH: Anadin. Delsay toilet tissue. Robinson's orange "smash." Andrews liver salts. Germolene. Phyllosan. 5-Day deodorant. Optone eye drops.

NORTH: Flit insecticides. Cephos. Zoflora. Phyllosan. Brylcreem. Yeast-Vite.

ALL: Gleem tooth-paste. Drene. Germolene. Pure Silvikrin.

Saturday, July 27

LONDON: Iron Jelloids. Drene. Optrex eye lotion. Sure Shield fruit-flavoured laxatives. Germolene. Amami wavyset. Miraglo. Pure Silvikrin. Alka-Seltzer.

MIDLAND: Nivea. Elastoplast. Robinson's orange "smash." Steradent. Rotosan. Pepsodent. Phenisc. Zoflora. Band-Aid. Alka-Seltzer.

NORTH: Vodex. Robinson's orange "smash." Steradent. Pepsodent. Phenisc.

ALL: Moorland indigestion tablets. Vita Glucose tablets. Andrews liver salts. Beecham's powders. Sunsilk shampoos. Brylcreem.

Other products which are being currently advertised (but for which no day of showing has been notified) include: Rose's lime juice. Astral cream. Handjoy. New Arabi soap. Pride lacquer, egg and lemon shampoo and scalp milk. Meet dog food. Fynnon salt. P.L.J.



The yellow and white pack and booklet for Vivomin dog food supplement introduced recently by the Crookes Laboratories, Ltd., Park Royal, London, N.W.10 (see *C. & D.*, June 15, p. 641).

PUBLICATIONS

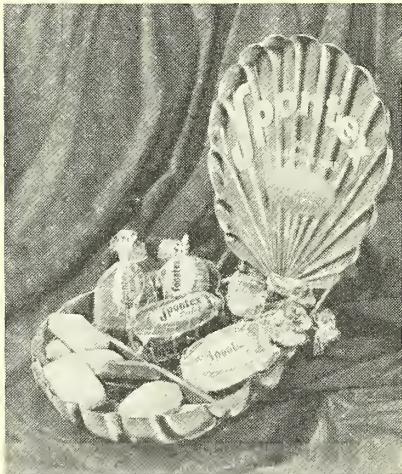
Booklets and Leaflets

GEORGE SPENCER & SON, LTD., Gloucester Road, Kensington, London, S.W.7 (for John H. Breck, Bermuda, Ltd.); "Breck Beautiful Hair Products" (4-p. folder).

HOPKIN & WILLIAMS, LTD., Chadwell Heath, Essex: Cuproin reagent for copper. Pp. 7. Materials for chromatography (leaflet).

KODAK, LTD., Kodak House, Kingsway, London, W.C.2: "Sixty-six Advertising Aids." Pp. 12.

THE MURPHY CHEMICAL CO., LTD., Wheathampstead, St. Albans, Herts: "Murphy Nurseryman's Booklet." Pp. 100.



DISPLAY "SHELL": For displaying Spontex cellulose toilet sponges in association with toilet soaps, Sponcel, Ltd., 40 Chancery Lane, London, W.C.2, produced the display "shell" illustrated. Fashioned in the form of an open shell, the display-piece is made from translucent plastic in a pastel shade of blue. The top carries the slogan "Spontex and your toilet soap. So good for the skin," and the lower section holds several Spontex toilet sponges and a variety of toilet soaps. The display is given free against a qualifying order for Spontex toilet sponges to a minimum list price value of £5 (subject to 33½ per cent. trade discount), plus purchase tax. Orders should be placed on special reply-paid order cards obtainable from wholesalers or direct. The shells are dispatched by the company and orders delivered and invoiced by the wholesaler. Spontex toilet sponges are packed soft, and presented in decorated polythene bags.

PHILIPS ELECTRICAL, LTD., Shaftesbury Avenue, London, W.C.2: "Flash and Colour." Pp. 8.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15: "Soundness and Nutrition in Stable and Kennel." This 28-p. booklet is of particular interest and value to the retail chemist who frequently encounters inquiries about lameness, etc., in animals. Advice on treatment is given briefly, the chapter on dogs being, however, amplified in a companion publication, "Canine Care." Available free to chemists.

TRUEFOOD, LTD., 113 Newington Causeway, London, S.E.1: "Cradle Days" (revised edition).

Catalogues

HILGER & WATTS, LTD., 98 St. Pancras Way, London, N.W.1: Technical and scientific books. Pp. 11.

THE PULLIN OPTICAL CO., LTD., 97 New Cavendish Street, London, W.1: General photographic catalogue, 1957.

Price Lists

MOORE MEDICINAL PRODUCTS, LTD., 1 Queen's Terrace, Aberdeen: Pharmaceutical specialities, June, 1957.

MORNY, LTD., 22 Wadsworth Road, Perivale, Greenford, Middlesex: Price List, 1957.

POTTERS HYGIENIC PRODUCTS (LONDON), LTD., 81 High Street, Dunmow, Essex: 1957 trade list. Pp. 4.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "Topical Soframycin" (12-p. booklet); "Asmacort for Asthma" (4-p. folder); "Cortibiotic Nasal Drops" (leaflet).

PRESS ADVERTISING

W. J. RENDELL, LTD., Hitchin, Herts. Rendells. In national and provincial Press.

CLAY & ABRAHAM (MANUFACTURING), LTD., 2 Upper Duke Street, Liverpool, 1: Susie's perfect dry-cleaning powder. In *My Home, Woman and Home*.

MEGGESON & CO., LTD., Llewellyn Street, London, S.E.16: Meggeson dyspepsia tablets. In national newspapers.

IMPERIAL CHEMICAL INDUSTRIES, LTD., Pharmaceutical Division, Wilmslow, Cheshire: Savlon liquid antiseptic. In national dailies and large circulation magazines.

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; † = Tax 90 per cent.

ANGLO-FRENCH DRUG CO., LTD. (from July 1)

	Doz.	I.R.P.	
Acceoline ampoules 0.05 gm. in 1 mil	8	48 0	5 4 R
0.10 gm. in 1 mil	8	54 0	6 0 R
0.20 gm. in 1 mil	8	60 0	6 8 R
Afdigly tablets	50	31 0	3 8 R
	200	77 0	9 0 R
	500	154 0	18 0 R

Naioidine (Logeais) vitaminised A forte* ampoules 10 mils

Sodium gentisate (Gabail) tablets 0.5 gm.

T. L. BENTON & CO., LTD. (from July 1)

Chandau bubble bath* 4 6 8 A

F. C. CALVERT & CO., LTD. (from July 9)

Tooth powder* 8 6 1 3 A

12 4 1 9 A

14 2 2 0 A

Four Arrows disinfectant 8 oz. 14 0 1 8 A

DOLS' VOLATALISE FLANNEL, LTD. (from July 1)

Dols' rub* 2 oz. 20 0 3 0 A

6 oz. 40 0 6 0 A

GLAXO LABORATORIES, LTD. (from July 15)

Ostelin liquid ½ oz. 18 0 2 0 R

2 oz. 38 3 4 3 R

Prepalin capsules 25 36 0 4 0 R

100 112 6 12 6 R

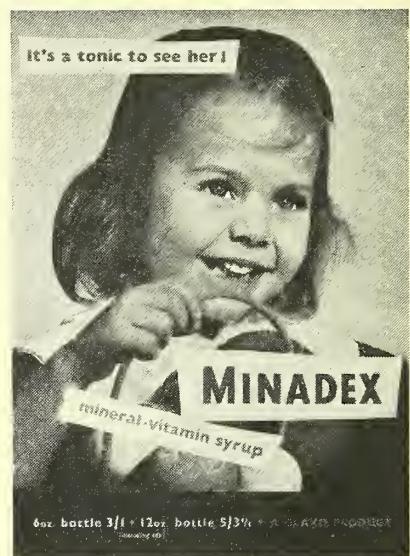
Mystrepton ointment Each 1 4 2 0 R

Estopen 100,000 units 10 7 2 10 9 R

SCOTT & TURNER, LTD. (from July 1)

Andrews liver salt 4 oz. 1 11 A

8 oz. 3 0 A



A showcard for Minadex available from Glaxo Laboratories, Ltd., Greenford, Middlesex.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, July 17

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Mere. Woolley trophy and prize (ladies' day).

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Elmbridge Experimental Horticultural Station, Saltash, Visit.

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY, Woodcote Park golf club, Coulsdon, at 1.30 p.m. Bogey competition.

Thursday, July 18

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Hadley Green, at 6 p.m. Cricket match v. Hadley Green C.C.

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; † = Tax 90 per cent.

SHADEINE CO., LTD. (from July 15)

	Doz.		
Shadeine†	24 4	4	6½ A
golden brightener†	24 4	4	6½ A

NEW PRODUCTS AND PACKS

ALLEN & HANBURY'S, LTD.

	Each	
Penicillin lozenges	100	2 6 3 9

J. BIBBY & SONS, LTD.

	7½	
New Araby soap*	1	1

COTY (ENGLAND), LTD.

	5 0	
Coty eyebrow pencil intermediate texture†		

CRYSTAL PRODUCTS, LTD. [manufacturer's corrected note]

Outdoor Girl Fresh Magic deodorant jel

	2 6	
	3 9	

J. C. & J. FIELD, LTD.

Field's perfume stick†

	3 0	
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PHILIPS ELECTRICAL, LTD.

Ladyshave shaver*

	119 6	
Pethilorfan ampoule 2 c.c.	12	9 0
	100	67 6

ROCHE PRODUCTS, LTD.

Pethilorfan ampoule 2 c.c.

	12	
	72 0	
	5 mgm.	96 0

G. D. SEARLE & CO., LTD.

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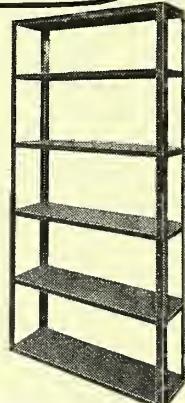
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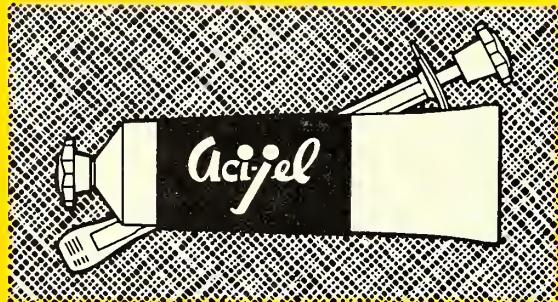
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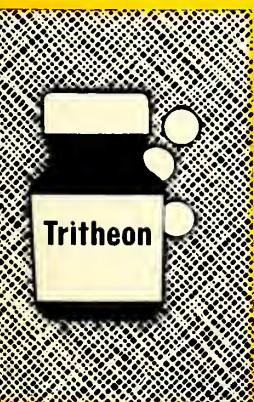
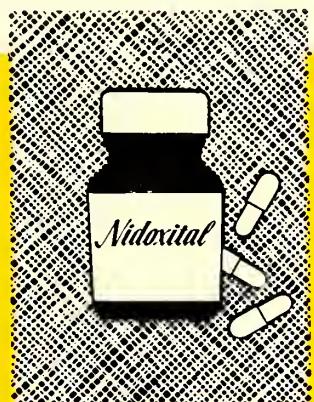
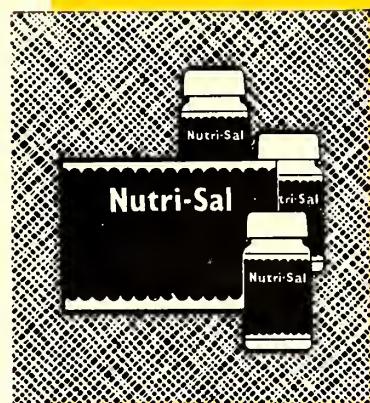
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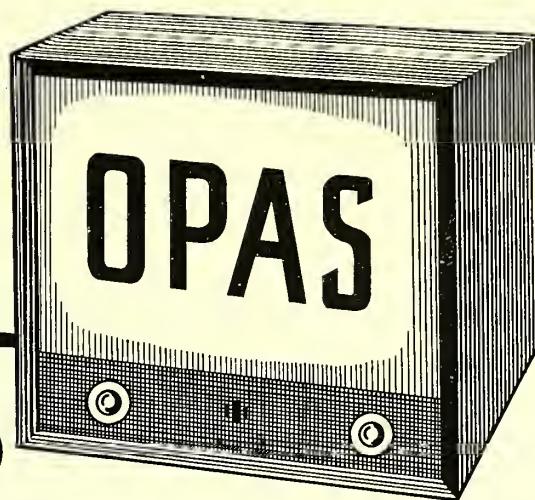
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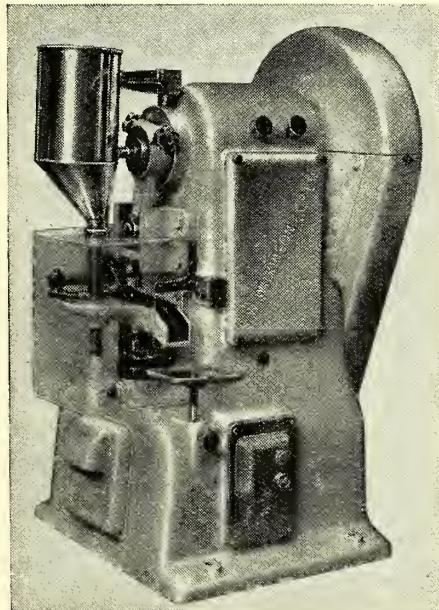
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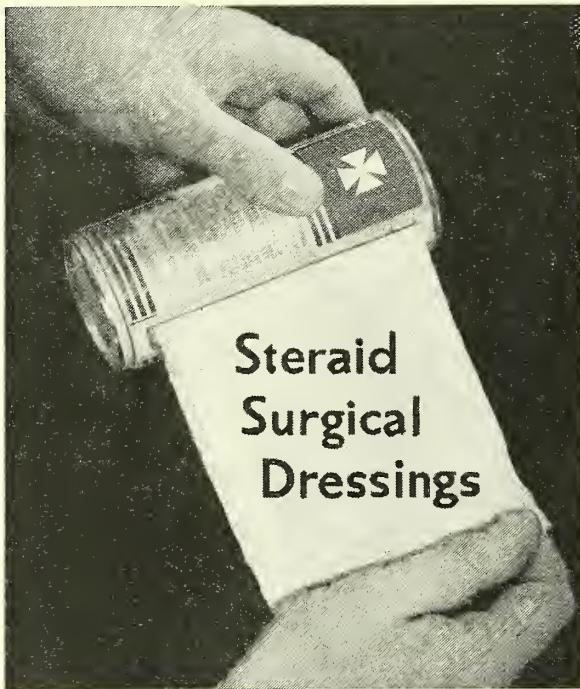
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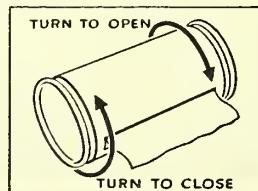


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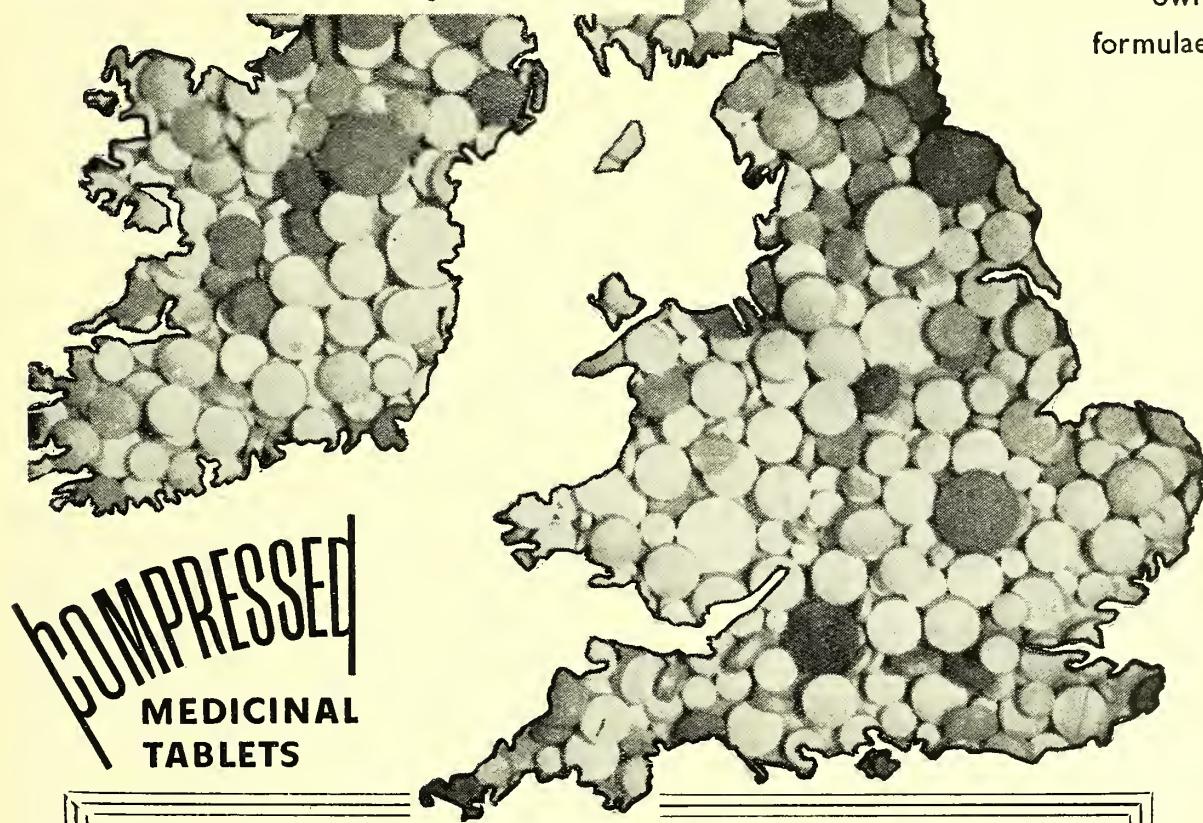


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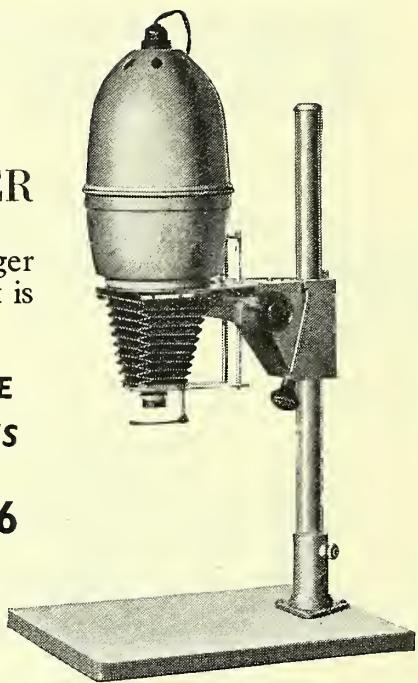
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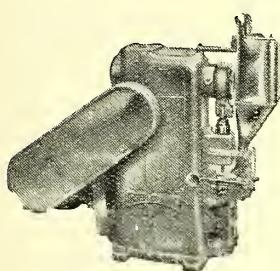
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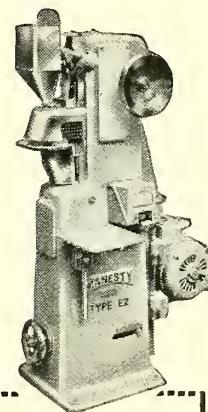
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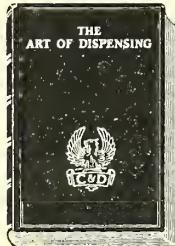
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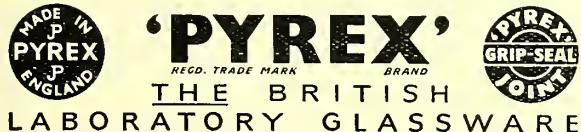
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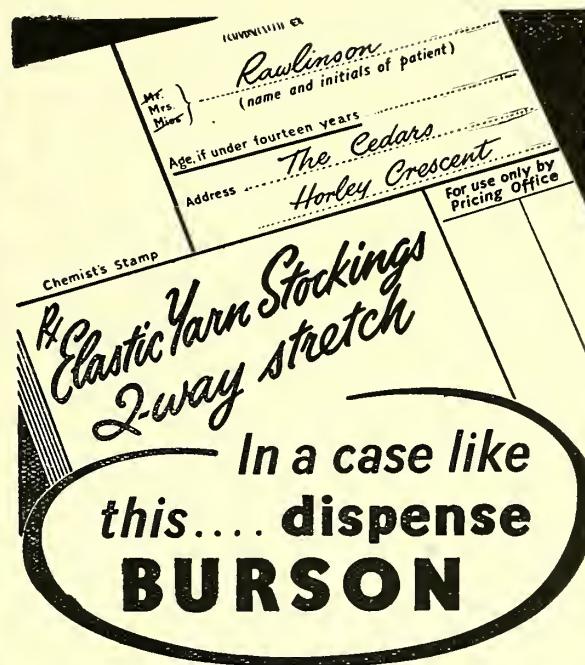
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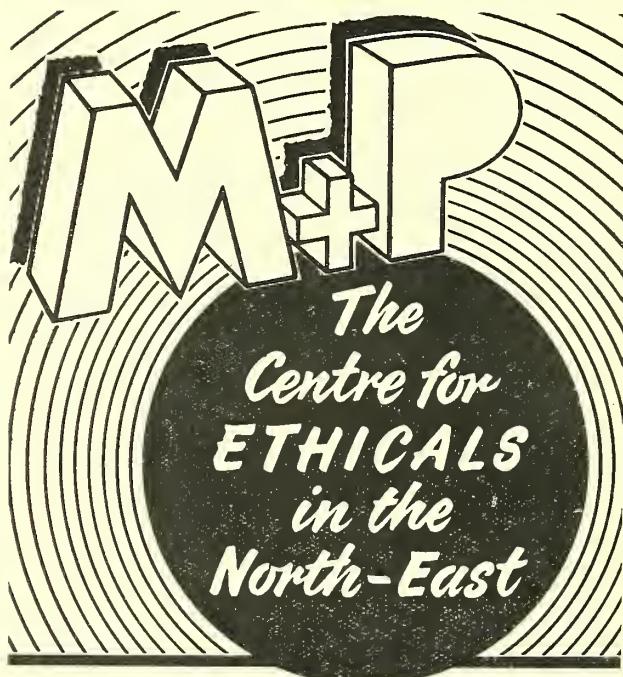
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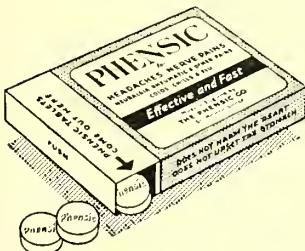
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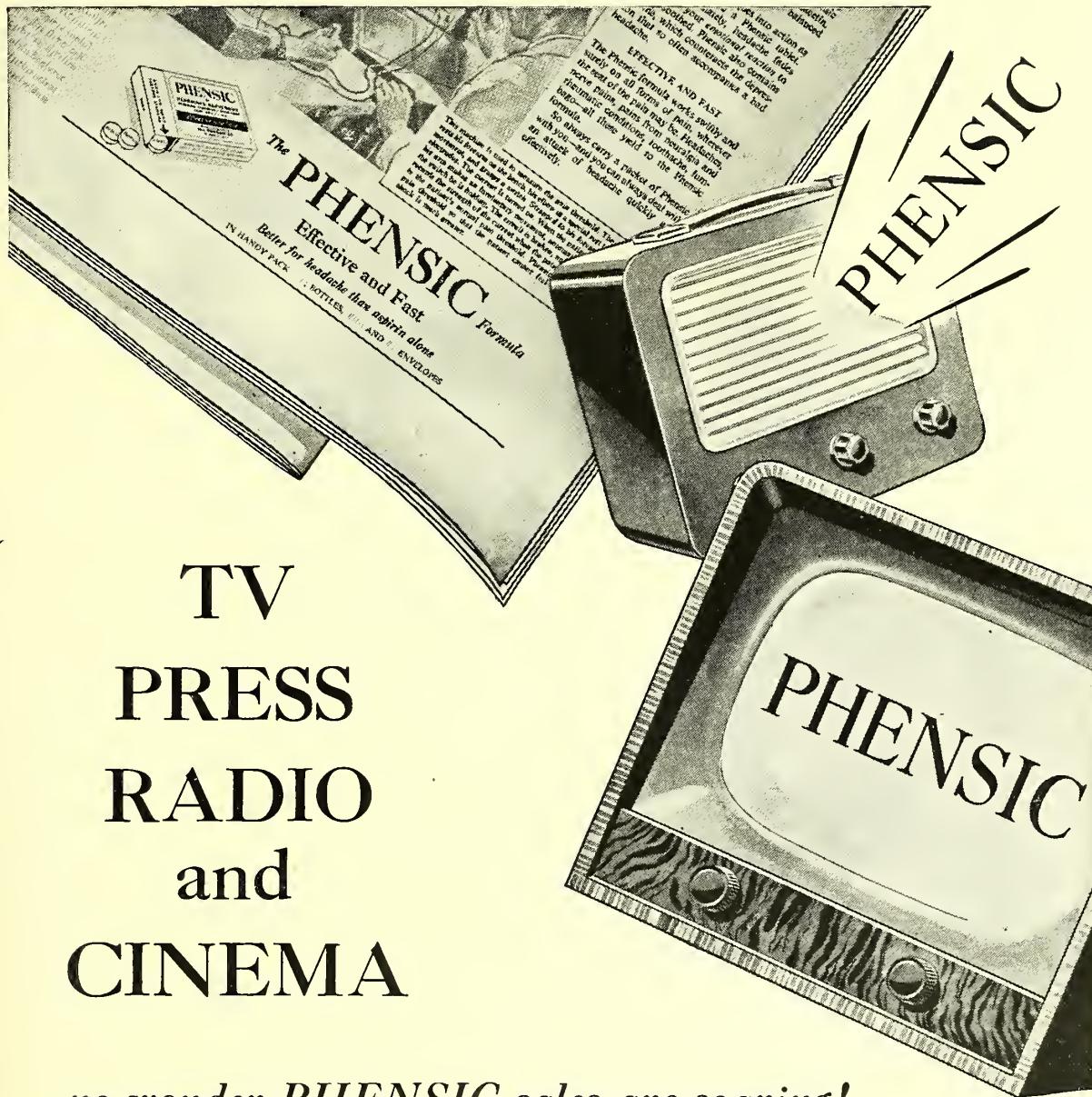
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Phensic advertising is *different*. Not only that, but this year it's heavier and more powerful than ever before. People hear about Phensic from their television sets and from their newspapers, as well as their radios and cinema screens. No wonder Phensic sales are going up . . . and *up* . . . and *UP*!

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TRESS advertising reaches the YOUNGER WOMAN'S market with advertising that convinces!

Proof that a Tress Set stays in much longer!

This photograph shows the remarkable result of a simple test on a growing-out perm.

After shampooing, the girl's hair was left damp. The left side was sprinkled with Tress and set in a growing-out perm.

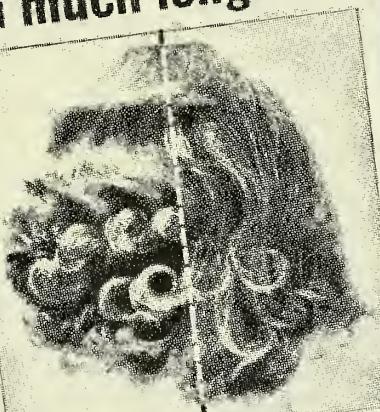
No rash was put on the right side, but it was set in a similar way to the left. After drying, the pins were removed and the hair combed through and arranged.

As you can see, the left side looks almost as though she has had a new perm. The hair has gained new life, new curling strength and vitality.

On the right side, the curls and waves have barely survived the comb through. The hair is straggly, "fly-away."

Here is proof that Tress is excitingly different—that it contains completely new types of hair nutrients, which improve the hair's curling power.

Whatever your type of hair—coarse or fine, dry or normal, over-permed or tangly—Tress will make it obedient, easier to set. Tress takes out all tangles, too, and when you comb, deep-dipping waves and eager-forming curls come



TRESS was used to set this side of the girl's head. This side of the girl's hair was set without TRESS.

TRESS

sets,curls and
conditions your hair

By L'OREAL, PARIS World's Greatest Makers of Hair Beauty

TRESS now available in large and small sized packs, is already one of the biggest selling wave sets. Constant advertising is opening the way to a wider market yet! The young woman of today has money to spend, and Tress is just the hair beauty product to appeal to her sense of good value.



This advertisement featuring an actual test carried out with Tress is regularly appearing in:

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BUSINESSES FOR DISPOSAL

GUERNSEY, C.I. Old-established chemist and toilet business for sale owing to family bereavement. Central position. Stock and fixtures at valuation. Long lease. For further particulars write Box C 4797.

TORQUAY. Gifts, drugs, cosmetics and photograph stores near sea front. Attractive shop with comfortable living accommodation. Turn-over £6,398 with much scope for pharmacy. Leased premises (freehold available). Price £3,500, s.a.v. Apply, Ernest Royle, F.V.I., Maidencombe, Torquay (Telephone: 88317). C 4791

APPOINTMENTS

ARCHWAY GROUP HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

required Whittington Hospital, N.19. Salary £580—£785. Candidates may visit the department by direct arrangement with the Medical Superintendent (Archway 3070).

Applications stating age, qualifications and experience and naming two referees to Group Secretary, 46 Cholmeley Park, N.6 within ten days. C 6829

BRADFORD "A" GROUP HOSPITAL MANAGEMENT COMMITTEE

Post-graduate Pharmaceutical Student

Applications are invited from post-graduate students for the above post. Salary £385 per annum. Applications stating age, qualifications, etc., to the Group Secretary, Bradford Royal Infirmary, Yorkshire. C 6834

CHERRY KNOWLE HOSPITAL, RYHOPE, Nr. SUNDERLAND, Co. DURHAM

Pharmacist

full-time Chief Pharmacist, Category 1; or part-time (sessional rates as Pharmacist-in-sole-charge). Health Service scales and conditions. Active Psychiatry Hospital of 890 beds. Written applications forthwith to the Group Secretary, C 6824

CLARE HALL HOSPITAL, SOUTH MIMMS, Nr. BARNET, HERTS

(405 beds for diseases of the chest)

Senior Pharmacist

required. Whitley Council scale, including London Weighting (also £25 per annum for higher qualifications if appropriate). Department serves other hospitals.

Applications, stating age, qualifications, experience and giving names of two referees, to be sent to the Medical Director. C 312

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, N.W.10

Locum Pharmacist

required August 1, 1957. Applications stating age, qualifications and experience with names of two referees to Medical Director. Salary £15 to £16 16s. per week according to experience. C 6808

CLARE HALL HOSPITAL, SOUTH MIMMS, BARNET, HERTS

Assistant-in-Dispensing

required. Whitley Council rate of pay, plus London Weighting. Applications to Medical Director. C 322

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, N.W.10

Deputy Chief Pharmacist

(Category V). Applications are invited for this position, Whitley Council conditions of service. Salary £725 by £30 (2) to £785 by £35 (5) to £960 by £30 (1) to £990 plus £25 for higher qualifications and London weighting. Applications stating age, qualifications and experience together with the names of two referees to be sent to the Medical Director as soon as possible. C 6807

DORSET COUNTY HOSPITAL, DORCHESTER

Senior Pharmacist

required. Salary and conditions of service in accordance with Whitley Council recommendations. Scale: £650 x £30—£830 p.a.

Applications, giving details of age, qualifications and experience, together with names of two referees, to Group Secretary, West Dorset H.M.C., Damers Road, Dorchester, Dorset, immediately. C 6802

DOVER AND DEAL SUB-GROUP HOSPITALS

(Acute General)

Assistant-in-Dispensing

required for the above hospitals. Salary scale aged 22 and over, £375 a year by annual increments to a maximum of £490 a year.

Applications stating qualifications and experience with the names and addresses of two referees to be sent to the Hospital Secretary, Buckland Hospital, Dover. C 6827

HOSPITALS FOR DISEASES OF THE CHEST

Pharmacist

Applications are invited for the post of Pharmacist or Senior Pharmacist at the London Chest Hospital. Salary in accordance with the Whitley Council scales. Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2. C 6826

KING EDWARD VII HOSPITAL, WINDSOR

(Category III Hospital)

Pharmacist

required. Apply with details of service and names of three referees to Secretary. C 6825

LEYTONSTONE (No. 10) HOSPITAL GROUP

Assistant-in-Dispensing

required at Whips Cross Hospital, London, E.11.

Salary according to age and experience rising to a maximum of £490 per annum plus London Weighting. Applicants must possess the Apothecaries' Hall Certificate in respect of which an additional £20 per annum is payable. Preference will be given to applicants with previous hospital experience.

Application forms from the Hospital Secretary, to be returned as soon as possible. C 6804

I84 STRAND, W.C.2

Tel: TEMple Bar 9212/3 & 6340

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11

Assistant-in-Dispensing

required at the above hospital. Whitley Council rates of pay and conditions. Applications in writing, giving names of two referees to the Secretary. C 333

LONDON HOSPITAL ANNEXE, ONGAR ROAD, BRENTWOOD, ESSEX

Assistant-in-Dispensing

required at this 200-bed Annex. Preference given to candidates holding the Certificate of the Society of Apothecaries. Salary in accordance with Whitley Council Scale. Write, House Governor, The London Hospital, Whitechapel, E.1. C 334

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11

(Acute General Hospital, 510 beds)

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in an expanding department. Salary (plus London Weighting) in accordance with Whitley Council Scale. Applications stating age, experience, qualifications and names of two referees to the Secretary. C 335

NAPSURY (MENTAL) HOSPITAL

MANAGEMENT COMMITTEE, Nr. ST. ALBANS, HERTS

Senior Pharmacist

Applications are invited for the above post. £650 x £30—£830. New Pharmacy in course of construction.

Applications to the Group Secretary, with names of two referees, endorsed "SENIOR PHARMACIST." C 301

NATIONAL HEALTH SERVICE

Joint Pricing Committee for England

Superintendent

Applications are invited for the post of Superintendent of the London Prescription Pricing Bureau, 66 Wells Street, London, W.C.1. The commencing salary will be £54 per annum rising by six increments to £1,039 per annum. The Superintendent is responsible to the Committee for the efficient operation of the Bureau and the duties entail, among other things, resolving the many problems arising from the pricing of National Health Service Prescriptions. Pharmaceutical and administrative experience is desirable together with ability to supervise staff.

Applications stating age, education, qualifications, experience and the names of three referees should be sent to the Clerk of the Committee, 38 Northumberland Street, Newcastle-upon-Tyne, 1, before August 31, 1957. C 6837

PINDERFIELDS GENERAL HOSPITAL, WAKEFIELD

Locum Pharmacist

required for August and September. Salary by arrangement. Apply immediately to W. Bowring, Group Secretary. C 6848

Appointments—Continued**QUEEN MARY'S HOSPITAL
FOR CHILDREN,
CARSHALTON, SURREY**

Locum Assistant-in-Dispensing required immediately for indefinite period. Salary according to Whitley Council scales plus London Weighting.

Applications stating age, qualifications and experience with the names and addresses of two referees should be sent to the Group Secretary, Queen Mary's Hospital for Children, Carshalton, Surrey. C 329

**ROYAL NORTHERN HOSPITAL,
HOLLOWAY, LONDON, N.7**

Pharmacist

required. Salary within range £580 to £785 p.a. plus London Weighting. Incremental credit for National Service or retail experience. Within easy reach of Archway and Holloway Road Underground. Applications giving details of qualifications and experience with names of two referees to Hospital Secretary. C 6819

**ST. HELIER HOSPITAL,
CARSHALTON, SURREY
(731 beds)**

Senior Pharmacist

Applications invited for above post. General acute hospital (category V); well-equipped pharmaceutical department. The successful applicant will be responsible for the manufacture and issue of ward stocks within hospital and also for issues to the other nine hospitals in Group. Salary (plus London Weighting) in accordance with Whitley Council Scale. Good canteen facilities. Apply, giving names of two referees, to the Secretary. C 6830

**ST. ALBANS CITY HOSPITAL,
NORMANDY ROAD,****ST. ALBANS, HERTS (384 Beds)**

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist (category III) at the above Hospital within easy reach of Central London. Whitley Council salary and conditions. Applications stating age, qualifications and experience to the Chief Pharmacist. C 6838

**ST. HELIER HOSPITAL,
CARSHALTON, SURREY
(731 beds)**

Assistant-in-Dispensing

This post will become vacant at the beginning of August. Salary according to age and experience, plus London Weighting. Applicants should possess the Apothecaries' Hall Certificate. Good canteen facilities. Apply, giving names of two referees, to the Secretary. C 6831

**ST. MARY ABBOTS HOSPITAL,
MARLOES ROAD,
KENSINGTON, W.8**

Pharmacist

required. National salary scale and conditions. Hospital conveniently situated near Kensington High Street and Earl's Court. Applications and full particulars and names of two referees to Hospital Secretary (C.D.55), immediately. C 6849

**ST. PETER'S HOSPITAL,
CHERTSEY, SURREY**

Pharmacist and Assistant-in-Dispensing required. Whitley Council conditions. Hospital situated in rural surroundings within easy access of London.

Accommodation available for single woman. Pharmacist £580 to £785 per annum according to experience. Asst-in-Dispensing £375 to £490 per annum. Applications, stating age and experience, with names of two referees to Administrative Officer, C 6801

**ST. HELIER HOSPITAL,
CARSHALTON, SURREY
(731 beds)**

Post-graduate Student

A vacancy for a Post-graduate Student will occur at the beginning of September. Applications should be made to the Secretary. C 6828

**THE LONDON HOSPITAL,
WHITECHAPEL, E.1**

Registered Pharmacist

Vacancy exists for the above post. Salary £580 x £30 (6) £760 x £25 (1) £785 according to previous experience and service. Accommodation available for women staff, if required, in hotel in Kensington run by the hospital. Write to House Governor. C 330

UNIVERSITY COLLEGE**HOSPITAL,
IBADAN, NIGERIA**

Staff Pharmacists—4 vacancies

Applications are invited from suitably qualified candidates for the above posts in the newly completed Hospital.

Applicants must be Members of the Pharmaceutical Society of Great Britain.

The salary offered for this post is £654—£1,260 p.a. In addition an expatriate officer will be paid an induction allowance of £180 on a salary up to £700 p.a. rising to £240 when the salary exceeds £700 p.a. Point of entry into the scale will depend upon previous experience. The appointment will be initially for two tours of 12 to 18 months and will be renewable, by mutual agreement, for a further tour.

On satisfactory completion of the agreement a gratuity of £25 where salary and in-licement allowance are less than £1,000, or £37 10s. when salary exceeds £1,000 p.a. is payable in respect of each completed period of three months' service.

An outfit allowance of £60 is payable on first appointment.

Partly furnished quarters are provided at a rental of 8½ per cent. of salary excluding inducement allowance, and an expatriate officer appointed will be eligible for 7 days' leave on full pay for each completed month of service in Nigeria. A Nigerian Officer will be eligible for 5 days' leave for each month.

Free first-class passages are provided for an expatriate officer on first appointment on vacation leave and on completion of his agreement. Free first-class passages to Nigeria will in certain circumstances be provided for non-expatriate officers.

Arrangements can be made to enable an officer to continue his National Health Service Super-annuation Scheme contributions and details of the revised salary and gratuity in such cases will accompany application forms.

Applications should be submitted not later than July 31, 1957, on the appropriate forms which will be forwarded together with additional information on receipt of an addressed foolscap envelope by the Adviser on Staff Recruitment, London Office, University College Hospital, Ibadan, 57 Catherine Place, Palace Street, London, S.W.1. C 6833

WALSALL HOSPITAL**MANAGEMENT COMMITTEE**

Deputy Chief Pharmacist

required (Category IV); duties mainly concerned with control of modern manufacturing and aseptic unit. Applications, together with names of two referees, to Group Secretary, General (Sister Dora) Hospital, Walsall. C 6854

**WEST MIDDLESEX HOSPITAL,
ISLEWORTH, MIDDLESEX**

Pharmacist and Assistant-in-Dispensing

required. Whitley salary and conditions applicable. Applications stating age, qualifications and experience with names of two referees to Chief Pharmacist. C 6847

**WOOLWICH GROUP HOSPITAL
MANAGEMENT COMMITTEE**

Locum Pharmacists

required for long or short periods at Brook General Hospital, Shooters Hill Road, S.E.18 (Tel.: Woolwich 1172) and at St. Nicholas Hospital, Tewson Road, Plumstead, S.E.18 (Tel.: Woolwich 1441). Salary £16 16s. per week. Apply to the Chief Pharmacist at the hospital. C 6803

SITUATIONS VACANT**RETAIL (HOME)****ARMY & NAVY STORES, LTD.,
Victoria Street, S.W.1**

5 minutes from Victoria Station

A vacancy exists for a Pharmacist to take charge of the Dispensary, six assistants. Hours 9-5.30. (Sats. 1 p.m.) Pension Scheme. Staff Restaurant. Shopping privileges. Write or call Staff Manager, 12 Artillery Row, London, S.W.1. C 331

BOOTS THE CHEMISTS invite applications for engagement as Pharmacists. Good prospects, permanent basis, salary according to age and experience, eligibility for Pension and Life Assurance, etc. Applications should be made to Retail Staff Department, Station Street, Nottingham, or alternatively through the nearest branch to the local Territorial General Manager stating age, experience and district preferred. C 6717

CAMDEN TOWN. Lady assistant required for counter work. Usual shop hours; no rota duties. Please give all details of age, previous experience, etc., to W. C. Ford (Chemists), Ltd., 73 Camden Road, Camden Town, N.W.1. C 4800

ELSTREE, NEAR. Managing pharmacist required for modern and attractive business shortly to be opened. The post will provide a substantial salary structure and good supporting staff. There is attractive and modern accommodation available above this branch. Applications in first instance to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 4782

HENDON CENTRAL. Two unqualified assistants required, male or female: (a) dispensing and pharmacy counter; (b) mainly photographic. Woolloons, 256 Hendon Way, N.W.4 (adjoining Gaumont Cinema). Hen. 7431. C 4804

PHOTOGRAPHY. Vacancy occurs in Hendon district for Counter Salesman and Assistant.

Particulars to Box C 4805.

PHOTOGRAPHIC STAFF. Male or female staff, experienced in the sale of photographic sundries and equipment, are required in various parts of London by London Co-operative Chemists, Ltd. Application in first instance to Chief Pharmacist, Grange Road, Leyton, E.10. C 4784

PORTSMOUTH. Branch Manager or Manageress Pharmacist will shortly be required for Pharmacy section of modern departmental store. Wages based on sales, at present £16 17s. 6d. per week (male) plus sales bonus. Application in writing stating age, experience, etc., to the Personnel Manager, Co-operative, 110 Fratton Road, Portsmouth. C 4788

SOUTHALL. Pharmaceutical chemist required to manage substantial business in an attractive suburb. The position provides full scope for initiative and advancement. An adequate incentive will be provided along with a substantial basic salary. The successful candidate will be eligible for the company's superannuation scheme. Apply, stating full details and when available for interview to Box C 4781.

SURREY. Lady assistant, experienced, for counter, display, stock, etc. Arden and most other agencies. Knowledge of photographs an asset. Good wages. Holiday this year. Nylon overall provided. Present assistant leaving owing to ill health. Apply, stating age, experience, salary expected, to Mr. W. P. Woollatt, 30 High Street, Banstead, Phone: Burgh Heath 720 (after 7.30 or Sunday, B.H. 2024). C 4779

UNQUALIFIED ASSISTANT (about 25 years) required for old-established family business in S.W. suburb. Permanency for suitable applicant. Send particulars to Box C 4798.

UNQUALIFIED assistant required (either sex) for light dispensing and counter. Knowledge of photographic goods an advantage. State age, particulars of education and previous employment, copies of testimonials, date free, salary required. Seasonal post with option of permanency if suitable. If engaged fare paid from any part of British Isles and Republic of Ireland. Raymond Smith, 2 Cliff Road, Newquay, Cornwall. C 4808

YORK CO-OPERATIVE CHEMISTS SOCIETY, LTD., offer positions to pharmacists of either sex in lovely City of York. One of these positions carries tenancy at moderate rental of a modern flat in one of the best residential suburbs. All are permanent, progressive and pensionable positions with good wages. Apply Superintendent Pharmacist, 22 Railway Street, York. C 327

YOUNG pharmacist, male, required to share management of busy pharmacy with proprietor. Modern self-contained flat available over premises, rent and rates free. For full details apply R. S. Taplin, 133 Hersham Road, Walton-on-Thames. C 4772

LOCUMS WANTED

LONDON. Locum Tenens Pharmacists are required to undertake a tour of duties in the London area. There is a substantial salary and expense structure and varying periods can be arranged. Applications in first instance to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 4783

PETERBOROUGH. Locum pharmacist required for 13 weeks commencing August 6. Possibility of permanency. No rota duties. State terms and particulars to Superintendent Chemist, Peterborough Co-operative Chemists, Ltd., Park Road, Peterborough. C 4795

BENGER**PHARMACIST**

Benger Laboratories Limited, manufacturers of medicinal and pharmaceutical preparations, urgently need a PHARMACIST, preferably with some industrial experience to take charge of a section of their Technical Department, responsible for the formulation of new drugs for clinical trial and for the subsequent development of manufacturing processes for such drugs.

This is an important post with excellent prospects and a high commencing salary will be paid, commensurate with the experience, qualifications and age of the applicant. A contributory pension scheme is in operation and the Company works a five-day week.

Applications are invited from Pharmacists who have a real interest in this type of work. They will require to have a certain mechanical aptitude and applications from any who have had experience of the use in pharmacy of some of the newer plastic materials would be particularly welcome. All applications will, however, receive careful consideration and will be treated in strict confidence. They should be sent to:—

**The Secretary,
Benger Laboratories Limited,
Holmes Chapel, Crewe, Cheshire**

C 6797

Situations Vacant—Continued**WHOLESALE**

A NATIONALLY KNOWN FIRM of food specialists requires the services of a representative, preferably with a background of medical knowledge, to introduce its products to hospitals and institutions in the London area and adjoining counties. Remuneration is by salary, bonus and expenses, and a car is provided. The company operates a contributory pension and life assurance scheme. Box C 4789.

ANALYTICAL CHEMIST, qualified, is required by Smith Kline & French Laboratories, Ltd. Preferably with experience of U-V and I.R. techniques. Salary not less than B.A.C. minimum. The company work a five-day week and operate an attractive pension scheme. Applications to the Personnel Officer, 120 Coldharbour Lane, London, S.E.5. C 6840

ASSISTANT TO MANAGER of veterinary information department, Evans Medical Supplies, Ltd., have a vacancy for an assistant to the manager of the veterinary information department. Applicants should have some practical experience of veterinary and agricultural matters. Commercial experience an advantage. Candidates should be under 40 years of age. Pension scheme. Apply giving full details of career to the Manager, Veterinary Information Department, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 6852

ASSISTANT PACKAGING MANAGER. South London manufacturing chemists require an energetic and capable man to assist in the organisation of belt production lines. Applicant should have a firm and pleasant personality and be capable of good staff relationships. Box C 4802.

SMART TRAVELLERS required by well-known brush manufacturers for the South of England, Midlands, Wales, North of England, Scotland, etc., with good connections amongst stores, chemists, hairdressers, etc. The position will carry a good remuneration for keen men. Salary, commission and expenses. Send full particulars of ground covered, turnover, age, experience, and remuneration required. State whether engaged, with copies only of references, if any, which will be treated in confidence. Also, young man to train as traveller. Simpsons Shaving Brushes, Nimmer Mills, Chard, Somerset. C 4801

BECAUSE of expansion of our Sales Force there are vacancies throughout the country for representatives to call on doctors, hospital and retail pharmacists. Applicants should have some pharmaceutical background or training and should be between 25-35 years. Previous selling experience will be an advantage. Remuneration is by salary and a prize scheme is operated. Expenses are allowed, company car provided and there is a non-contributory pension scheme. Applications giving full particulars of education and past experience should be addressed to Sales Manager, Lederle Laboratories Division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2. C 332

BOTTLE SALESMAN WANTED. Salesman representative required with previous experience in selling bottles, jars and screw caps. Write giving full particulars to Reliance Trading Company, 75 Fairfax Road, London, N.W.6. C 6839

BRUSH TRADE. Old-established manufacturer of toilet and other types of brushware seek a representative for London area. Remuneration by salary, and expenses paid. Please reply in confidence particulars of experience had, age and remuneration required to Box C 4796.

EXPERIENCED REPRESENTATIVE required, calling on chemists, to carry as additional line imitation jewellery on commission basis by large wholesale jewellery firm. Box C 6810.

GENATOSAN, LIMITED (a member of the Fison Group), have vacancies for one or two qualified chemists, preferably with a pharmaceutical qualification, in the Pharmaceutical Development Department. Applicants, who should not be more than 32 years of age, are required for pharmaceutical and toilet product formulation teams. These posts call for an interest in modern techniques and a keen experimental approach to pharmaceuticals. Previous employment in the manufacturing field is not essential and retail experience could be valuable. The Department is expanding rapidly and has well-equipped modern laboratories; working conditions are excellent. The posts are well remunerated and superannuated. Applications containing details of age, education and experience should be addressed to the Personnel Officer, Genatosan Limited, Derby Road, Loughborough, Leics. Please quote reference 26. C 6835

MIDLAND manufacturing chemists require male with knowledge of drugs and analytical experience. Permanent position. Good conditions. Box C 6851.

EVANS MEDICAL SUPPLIES LTD.**PHARMACEUTICAL ANALYST**

Evans Medical Supplies Ltd. invite applications from male persons aged 25-35, holding suitable qualifications in chemistry or pharmacy, for a position as a Pharmaceutical Analyst. The successful applicant will be required to accept an assignment in Burma for approximately 7 months in 1958 on attractive financial terms. Applications should be made in the first instance with details of age, education and experience to the Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 6811

U C A L

United Chemists Association, Ltd., require virile Agent to represent them in Northumberland and Durham calling on private chemists exclusively. ONLY live established men (or women) 27-45 years, need apply. Accounts will be handed over and every assistance given. No objection to non-competitive products. Commission 10 per cent. on Ucal Specialities, Packed Goods and Sundries.

It is intended that this appointment will lead, in 6/12 months, to a salaried post with full permanent status, if justified and desired by applicant.

Applications with full personal details and connection, in strict confidence to Sales Manager, Ucal Works, Cheltenham, Glos.

C 6844

HOSPITAL REPRESENTATIVE in Lancashire. Evans Medical Supplies, Ltd., have a vacancy for a pharmacist to act as sales representative calling on hospitals in Lancashire. Car and expense allowance provided, pension scheme. Apply, stating details of career, to Home Sales Director. C 6852

INTELLIGENT young assistant required for interesting clerical duties in purchasing department of well-known London merchanting house. Applicants should have had some previous experience in the chemical and pharmaceutical industry. Phone: Hyde Park 0521. C 6845

MAY & BAKER, LTD., Dagenham, Essex, are looking for a Senior Copywriter to take charge of their Copywriting Department and supervise the work of a team of copywriters covering ethical medical products and other pharmaceutical and chemical manufactures. Applicants should have several years' experience of medical copywriting. This is a senior appointment and salary will be commensurate with the responsibilities. Contributory pension scheme. Apply initially in writing to the Personnel Officer, quoting Reference No. 113. C 6799

MEDICAL REPRESENTATIVE required for London area. Applicants between 25 and 40 years of age will be considered. A good pharmaceutical background is an important asset. Previous experience as medical representative not essential as full instruction will be given. Please state age and salary required. Box C 326.

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REPRESENTATIVE required by London firm dealing in all surgical and hospital requirements. Area to be covered would be London, Greater London and Home Counties. Good salary and all reasonable expenses to suitable applicant. Apply for appointment. Box C 6599.

REPRESENTATIVE required for Manchester area and northern counties of England to handle chemists' printed labels, tablet cartons, etc. Connections with chemists, doctors and hospitals desirable and some printing knowledge an advantage. Salary, commission and expenses. Contributory pension scheme after probationary period. Write Box C 6841.

Situations Vacant—Continued

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REPRESENTATIVE REQUIRED by well-known pharmaceutical house for their Birmingham territory. Must be thoroughly experienced and able to take over and develop existing connection in drugs, packed goods, sundries, etc. Salary, commission and expenses paid, car provided, pension scheme. Full details of past experience, etc., to Home Sales Director, Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool. C 6850

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